

SASKATCHEWAN ASSOCIATION FOR  
**SAFE WORKPLACES**  
IN HEALTH

Workplace health and safety:  
a priority for all.

## Transportation of Dangerous Goods

November 2023

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IN HEALTH

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## Who Are We?

The Saskatchewan Association for Safe Workplaces in Health (SASWH) is a non-profit organization committed to work in partnership with healthcare industry workers and employers to reduce the number of workplace injuries and illnesses in the health sector.

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## Housekeeping Details

  
Emergency Exits

  
Washrooms

  
Scent Free environment

  
Cell Phones

  
Break Times

  
Evaluations

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## Learning Objectives

1. Review Legislative Requirements for Handling Dangerous Goods
2. Describe the Classification Criteria for Dangerous Goods
3. Examine Shipping Documentation Requirements
4. Practice Looking Up Information in the Schedules and Guides Found in the Regulations
5. Examine Requirements for Means of Containment and Certification Marks
6. Identify the Special Situations and Exemptions Found in the Regulations
7. Discuss the Accidental Release and Imminent Accidental Release Reporting Requirements and Limits

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## Course Participation

- This session will be a hands-on learning experience with lots of interactive participation/discussion.
- Please ask questions and/or voice comments and concerns as we go.
- Successful completion of this program includes your active involvement in discussions, learning activities and the final mark of 70% on the final exam.

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## Learning Objective 1

### Review Legislative Requirements for Handling Dangerous Goods

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## Accountability

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What does accountability mean to you?

How are we accountable at home?

How are we accountable at work?

How is your employer accountable to you?

As your trainer, how am I accountable to you?

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## Legislation

SAFE WORKPLACES

Saskatchewan Occupational Health and Safety Legislation outlines:

- Employer Responsibilities
- Worker Responsibilities
- Rights of the Worker

What are the 3 rights of the worker?

Right to Know

Right to Participate

Right to Refuse

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## WHMIS & TDG

- **WHMIS** - Applies when goods are being handled and stored in house or inside of a workplace.
- **TDG** - Applies when goods are being packaged, offered for transport, and transported off site.

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## Canadian Agencies Regulating Hazardous Materials



Transport Canada (TC)



Environment Canada



Health Canada



Canadian Nuclear Safety Commission

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## Legislation

TDG came into effect in 1980 and has gone through various amendments resulting in the current Clear Language Regulations.

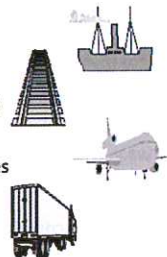
Federal and Provincial governments cooperatively developed the comprehensive legislation Transportation of Dangerous Goods (TDG).

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## TDG Regulations

- Intended to protect everyone - EMS, Public, Environment
- Ensures all needed information is provided
- Applies to trucks, trains, ships and airplanes
- No mode of transportation is exempt



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## TDG Regulations

- Section 6.1(1) states that anyone who handles, offers for transport or transports a dangerous good must be **ADEQUATELY TRAINED** and hold a training certificate or work under the direct supervision of someone who does.

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## Training Certificate (6.1)

- A worker who does not hold a valid TDG certificate must work under direct supervision of someone who does.
- This direct supervision must be verbal and visual.
- A TDG certificate is NOT transferable. If a worker is employed by two employers and they must hold a current TDG certificate; certificates must be issued by both employers.

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## Training

- Handlers, Consignors, Carriers & Consignees
- Employer determines level of training
- 3-year certifications:
  - restricted
  - shown to inspector immediately upon request



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## Training Requirements

- 6.2 A person is adequately trained if the person has a sound knowledge of all the topics listed in paragraphs (a) to (m) that relate directly to the person's duties and to the dangerous goods the person is expected to handle, offer for transport or transport:

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## Training Certificate

### Issuance and Contents of Certificate (6.3)

- A self-employed person may issue their own certificate

### Expiry Date of Certificate (6.5)

- Road certificates are valid for 36 months

### Keeping Proof of Training (6.6)

- Employer must retain copies for 24 months past expiry

### Showing Proof of Training (fines) (6.8)

- Employer- up to 15 days in most cases
- Trained person- immediately

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## Definitions

- **Dangerous Goods** –  
a product, substance or organism included by nature or by the regulations in any of the classes listed in the schedule 1 and any part/concentration meets the criteria in at least one of the nine classes

**\*In general, a dangerous good is a product that presents a risk for people, animals and the environment.**

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### Definitions Cont'd.

- *Consignor (shipper)* - the person who offers a dangerous goods for transport/shipment (3.1)
- *Carrier/Courier* - the person who transports the dangerous goods (3.2)
- *Consignee (receiver)* - the person to whom the dangerous goods are being transported

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### Responsibilities: Consignor

- Consignor (shipper) ensures the goods are: (4.4)
  - Classified
  - Documented correctly
  - Packaged
  - Marked
  - Labeled
  - Reported any loss
- Additionally, they ensure that the carrier has the correct placards or provide placards if necessary.

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### Responsibilities: Carrier

- Carrier/Courier ensures: (4.5)
  - the shipment complies with legislation
  - placards, when necessary, are attached to the transport vehicle
  - documents are readily accessible, within arms reach.

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### Responsibilities: Carrier

- If the driver leaves the truck, they must be on the seat in clear visibility
- If the driver disconnects the truck from the trailer, they must be in a watertight receptacle on the trailer
- Deliver goods and shipping documents
- Is responsible for Dangerous Goods in their possession from the time of receipt until another person takes possession of them

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### Responsibilities: Consignee

- Consignee (receiver) ensures that:
  - shipping documents are consistent with the load
  - the shipment is inspected for leaks or damage
  - Deliveries are unloaded promptly, and placard are removed if necessary

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### Responsibilities: Inspectors

#### Inspectors have the right to:

- Search your shipment
- Seize your shipment
- Take samples from your shipment
- Make copies of shipping documents
- Make copies of your training certificates

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## Penalties

- Anyone not meeting the requirements found in the legislation can be fined and, in some cases, jailed. Fines and penalties under the TDG regulations are found under Act 33-40.

**\*Any person who contravenes or fails to comply with a provision of this Act can be fined \$50,000 for the first offense, maximum fine is \$100,000 or two (2) years in jail. (Act 33).**

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## Due diligence is the only defense

- A person cannot be found guilty of an offence if:

**It is established that person took all reasonable measures to comply with TDGR**



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## Learning Objective 2

**Describe the Classification Criteria  
for Dangerous Goods**

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## Classification Responsibility

- **Responsibility for Classification**
  - the consignor is responsible for determining the classification of dangerous goods.
- **Normally done by:**
  - a manufacturer, a person who formulates, blends or prepares mixtures or solutions of goods
  - in the case of infectious substances - a doctor, scientist, veterinarian, epidemiologist, genetic engineer, microbiologist, nurse, coroner, laboratory technologist/technician

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## Classification

**Classification of a dangerous good includes:**

- Shipping name (Must come from Schedule 1)
- UN number
- Packing Group, Class or Category

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## Shipping Names

- All shipping names are taken from Schedule 1, Column 2 of the regulations
- Must appear on all documents exactly as they appear in Schedule 1

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### Packing Group

Packing Groups are taken from Schedule 1, Column 4

A group in which dangerous goods are included based on the inherent danger of the dangerous goods.

In other words, it is the degree of danger associated with that product

- Packing Group I - Great Danger
- Packing Group II - Moderate Danger
- Packing Group III - Minor Danger

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### Compatibility Group

- Compatibility group for each explosive listed in Schedule 1 is shown in column 3
- Means one of the 13 groups of explosives described in Appendix 2 of Part 2, Classification. (*groupe de compatibilité*)
- The compatibility group tells us which explosives can or cannot be shipped together

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### Classes of DG's

- Dangerous Goods are separated into classes and divisions
- There are NINE classes of dangerous goods
- Some DG's have more than one type of risk/hazard, therefore they have a subsidiary class listed on the shipping document in brackets. 5.2(1)

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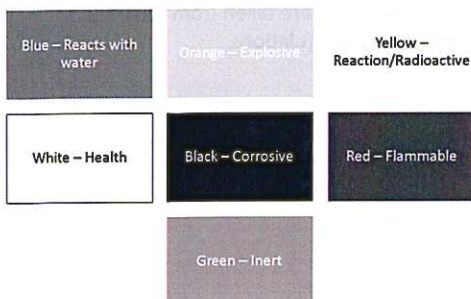
### Classifications

- Class 1: Explosives
- Class 2: Gases
- Class 3: Flammable Liquids
- Class 4: Flammable Solids
- Class 5: Oxidizing Substances & Organic Peroxides
- Class 6: Toxic and Infectious Substances
- Class 7: Radioactive Materials
- Class 8: Corrosives
- Class 9: Miscellaneous

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### Color Legend



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### Classes & Divisions

Classes 1, 2, 4, 5 & 6 have divisions within their classes.

#### EXAMPLE:

Class 6 (Toxic and Infectious Substances)

CLASS 6.1

Division 1 (Toxic)

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## Subsidiary Risk Classification

DANGEROUS GOODS MAY HAVE MORE THAN ONE TYPE OF HAZARD

Primary Classification (Toxic)

Class 6.1 (3)

Subsidiary Classification  
(Flammable)

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## Take Note:



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## Class 1: Explosives

Substances are included if they are:

- capable, by chemical reaction, of producing gas at room temperature, pressure and speed that would damage the surroundings
- designed to produce an explosive or pyrotechnic effect by heat, light, sound, gas or smoke or a combination of those means
- resulting from non-detonating or self sustaining exothermic chemical reactions

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## Class 1: Explosives

- There are Six Divisions
- Explosives are included in Packing Group II



\* Compatibility Group  
\*\* Place for Division

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## Class 1: Explosives

- Explosives are divided into 13 compatibility groups
- Certain groups can be transported together
- A through S



\* Compatibility Group

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## Class 2: Gases

- A substance is included if it is;
  - a gas
  - a mixture of gases
  - a mixture of one or more gases with one or more vapors of substances included in other classes
  - an article charged with a gas
  - an aerosol
- No Packing Group



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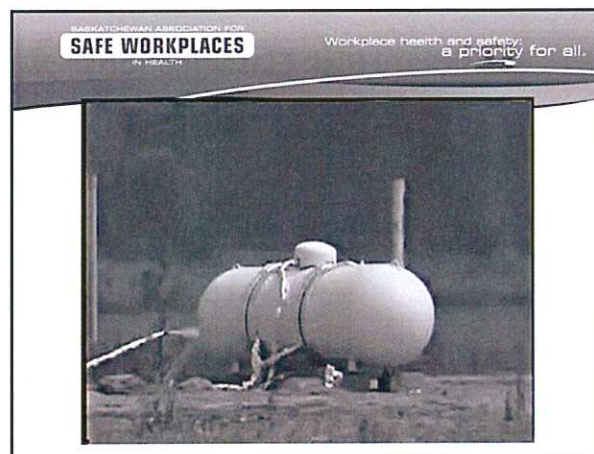
## Class 2: Gases

- Three Divisions:
  - Class 2.1 - flammable gases/propane
  - Class 2.2 - non-flammable and non-toxic and not included in 2.1 or 2.3/ compressed oxygen
  - Class 2.3 - toxic gases, known to be toxic or corrosive to humans/ compressed carbon monoxide



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## Class 3: Flammable Liquids

- There are three Packing Groups
  - Group I - initial boiling point 35° C or less and any flash point
  - Group II - initial boiling point is greater than 35° C and a flash point less than 23° C
  - Group III - if the criteria for inclusion in Group I and II are not met



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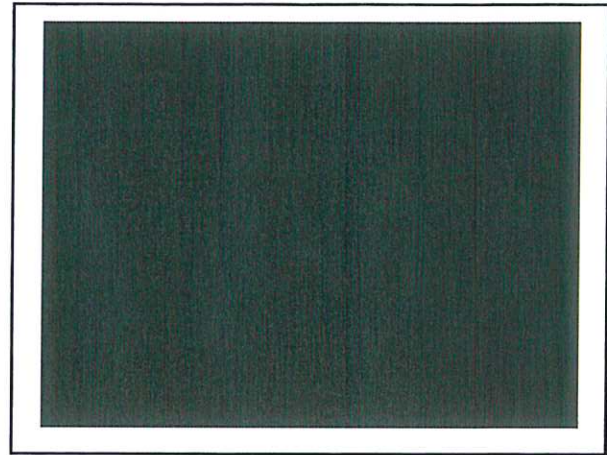
## Class 4: Flammable Solids

- There are three Divisions and three Packing Groups:
  - Class 4.1 - flammable solids/ lithium
  - Class 4.2 - substances liable to spontaneous combustion/ carbon activated substances
  - Class 4.3 - substances that on contact with water emit flammable gases (water reactive)/ barium substances



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## Class 5: Oxidizing Substances and Organic Peroxides

There are two Divisions and three Packing Groups:

- Class 5.1 - oxidizing substances - substance that yield (release) oxygen
- Class 5.2 - Organic Peroxides



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## Class 6: Toxic and Infectious Substances

- There are two different divisions in Class 6
  - 6.1 - Toxic Substances, which consists of substances that are liable to cause death or serious injury or to harm human health if swallowed or inhaled or if they come into contact with human skin
  - 6.2 - Infectious Substances, which consists of infectious substances.

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## What is an Infectious Substance?

An Infectious Substance is defined under Section 1.4 of the TDG Regulations as:

A substance known or reasonably believed to contain viable micro-organisms such as viruses, bacteria, parasites, fungi, and other agents, that are known or reasonably believed to cause disease in humans or animals. Substances classified as infectious substances may include blood, tissue, organs, body fluids, or cultures that contain pathogenic microorganisms.

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## Category

Infectious Substances fall under Class 6.2 in TDG Regulations

Class 6.2 has two categories: Unlike other classes, Infectious Substances are not assigned packing groups, but are included in either Category A or Category B.

Exempt Specimens (Meaning not meeting the criteria as Category A or B Infectious Substances) will still be assigned to a packing group:

- Packing group I: High danger
- Packing group II: Medium danger
- Packing group III: Minor danger

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## Category A

- Are transported in a form that poses the highest risk of infection during transportation.
- They are capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy individuals or animals.

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## Category B

- May be responsible for causing disease in humans or animals, but the conditions of transport are such that the likelihood of contracting the disease upon exposure is extremely unlikely.
- Infectious substances that do not meet the criteria for inclusion in Category A.

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## What Form are Infectious Substances Shipped in?

### Cultures:

The result of a process by which pathogens in a specimen are intentionally propagated.

The risk of infection is higher in cultures due to the high concentration of the infectious substances as opposed to patient specimens.

**Always shipped as Category A Infectious Substances**

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### Medical or Clinical Waste:

Medical or Clinical wastes include sharps, soiled linen etc.

They are derived from the medical treatment of animals or humans or from bio-research.

**If the medical or clinical waste is believed to contain a pathogen that meets the definition of Category A or B, it must then be assigned appropriately.**

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### Biological Products:

Products derived from living organisms, such as a virus therapeutic serum, blood, blood derivatives, or vaccines applicable to the prevention, treatment, or cure of a disease or condition of humans or animals.

**If a biological product is believed to contain a pathogen that meets the definition of Category A or B, it must then be assigned appropriately.**

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### Neutralized/Inactivated:

Substances in a form that any pathogens present have been treated such that they no longer pose a health risk.

These neutralized/inactivated/fixed materials are not subject to the Regulations unless they meet criteria for inclusion in another class. For example, fixed samples are not infectious, but the fixative is often flammable.

The substance would then be a Class 3 Flammable Liquid.

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**Patient Specimens:**

Patient specimens are collected directly from humans or animals (for example: blood, tissue, body parts), that are being transported for purposes such as research, diagnosis, investigational activities, disease treatment and prevention.

If the patient specimen is believed to contain a pathogen that meets the definition of Category A or B, it must then be assigned appropriately.

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**TDG 6.2 UN Numbers****Category A:**

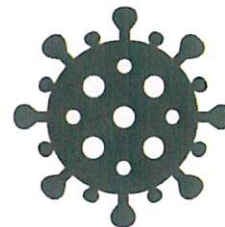
UN 2814- INFECTIOUS SUBSTANCE,  
AFFECTING HUMANS

UN 2900- INFECTIOUS SUBSTANCE,  
AFFECTING ANIMALS only

UN 3549 - INFECTIOUS SUBSTANCE,  
SOLID WASTE FROM MEDICAL  
TREATMENTS OF HUMAN AND  
VETERINARY TREATMENT OF ANIMALS

**Category B:**

UN 3373- BIOLOGICAL SUBSTANCE,  
CATEGORY B



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**TDG 6.2 UN Numbers****Exemptions:**

UN 3291- CLINICAL WASTE, UNSPECIFIED N.O.S.

UN 3291- (BIO) MEDICAL WASTE, N.O.S.

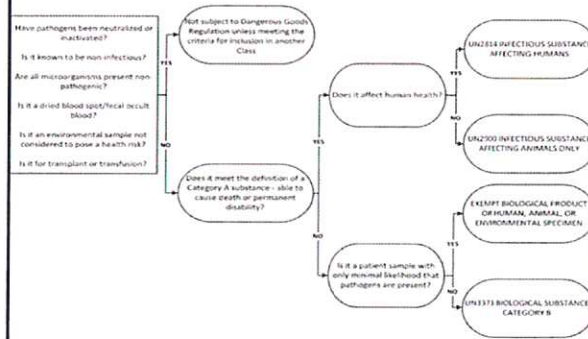
UN 3291- REGULATED MEDICAL WASTE N.O.S.

**Class 9 Miscellaneous**

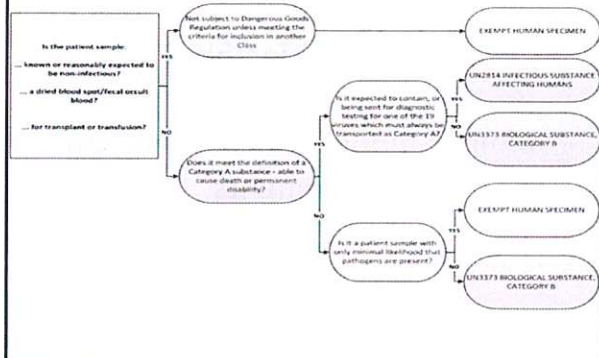
UN 1845- CARBON DIOXIDE SOLID (Dry Ice)

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**Classification-General**

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**Classification-Patient Specimens**

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Type of packaging	UN Number - Category
Type P620	<b>Intended for transport of:</b> <ul style="list-style-type: none"> <li>• UN2814 – Category A and UN2900 – Category A</li> </ul> <b>May also be used for transport of:</b> <ul style="list-style-type: none"> <li>• UN3373 – Category B</li> <li>• UN3291 – Waste</li> </ul>
Type P650	<b>Intended for transport of:</b> <ul style="list-style-type: none"> <li>• UN3373 – Category B</li> </ul> <b>May also be used for transport of:</b> <ul style="list-style-type: none"> <li>• UN3291 – Waste</li> </ul>
Standardized and non-standardized packagings permitted in Part iii of the CAN/CGSB-43.125 standard	<b>Intended for transport of:</b> <ul style="list-style-type: none"> <li>• UN3291 – Waste</li> <li>• UN2814, UN2900 containing Category A waste</li> <li>• UN3549 - Solid medical waste containing Category A</li> </ul> <b>Note: Permitted packaging is dependent on classification of waste</b>

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## Class 7: Radioactive Materials

Radioactive are separated into categories according to the degree of danger:

- Category I - least danger
- Category II – medium danger
- Category III - greater danger



\*Anyone offering radioactive material for transport requires specialized training and certification

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## Class 8: Corrosives

There are three Packing Groups:

- Packing Group I - permanent destruction of skin, in less than 60 minutes
- Packing Group II - destruction of skin 14 days after exposure (when exposed for 3 minutes)
- Packing Group III - destruction of skin in 14 days after exposure (when exposed for 60 minutes)



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## Class 9: Miscellaneous

Substances are included if:

- They do not meet the criteria for inclusion any of the classes 1-8
- contains genetically modified micro-organisms that may pose a hazard to public safety
- they are transported at a temperature greater than 100°C in liquid or 240°C in solid states (not asphalt or tar)

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## Product Segregation

- Don't load a transport unit that appears unsafe to handle the load or the weight of the product
- Stack powders on top of liquids
- Do not ship Dangerous Goods with food stuff
- Don't load DGs into passenger vans, cars or school buses
- Don't load DGs where sharp objects might puncture packaging

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## Learning Objective 3

Examine Shipping Documentation Requirements

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## Documentation

Minimum information required on a shipping document:

- Consignor's name and address
- Date of shipment
- UN Number
- Shipping name
- Primary class and subsidiary class

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## Documentation

- Packing group or category
- any extra information required by Special Provisions
- the quantity in metric measurement
- 24-hour contact information
- the consignor's certification

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Note: the yellow spaces are required information. Other space reflect common practice.

SHIPPING DOCUMENT									
Consignor (Shipper) Name: Address:					Consignee (Destination) Name: Address:				
DATE:					Point of Origin:				
Name of Carrier:					Shipping Document #				
Transport Unit #									
REGULATED DANGEROUS GOODS									
24-HOUR TENDER									
UN number	Shipping Name (if applicable, Technical Name)	Primary Class	Subsidiary Class	Packing Group	Toxic by Inhalation (SP 2.2)	Total Quantity (kg or L)	Number of packages requiring labels		
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, are properly classified and packaged, have dangerous goods safety marks properly affixed or displayed on them, and are in all respects in proper condition for transport according to the Transportation of Dangerous Goods Regulations.									
Shipper's name (please print)									
NON-REGULATED DANGEROUS GOODS									
Packages		Description of articles					Weight		
Received in apparent good order Consignee's signature					Driver's # Driver's signature				

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## Risk Group 4 Viruses

- |  |   |
|--|---|
| a. Crimean-Congo Hemorrhagic Fever Virus | i. Machupo Virus                              |
| b. Ebola Virus                           | j. Marburg Virus                              |
| c. Foot and Mouth Virus Cultures         | k. Nipah Virus                                |
| d. Guanarito Virus                       | l. Omsk Hemorrhagic Fever Virus               |
| e. Hendra Virus                          | m. Russian Spring-Summer Encephalitis Virus   |
| f. Herpes B Virus                        | n. Sabia Virus                                |
| g. Junin Virus/Kyasanur Forest Virus     | o. Variola (Smallpox Virus)                   |
| h. Lassa Virus                           | p. and recently added Tick borne encephalitis |

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## Documentation: Consignor

### Responsibilities:

- A shipping document must be prepared before allowing a carrier to take possession
- Must keep a copy of the shipping document for 2 years after date of issue.

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## Documentation: Carrier

### Responsibilities:

- Must not take possession of DGs without a shipping document
- DGs in transport are in the possession of a carrier until another person (other carrier/consignee) takes possession of them
- While DGs are in transport and in the possession of a carrier, the shipping document must be kept in a location specified by sections 3.7 to 3.10 of regulations.
  - Within reach of the driver/pocket in cab door
  - Driver not in cab/ on seat or in another visible location
  - Power unit unhooked/ in an outside receptacle easily identifiable

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## Documentation: Consignee

### Responsibilities:

- Checks to make sure shipping documents match deliveries
- No longer required to keep a copy of the shipping documentation but it is still considered good practice.

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## Documentation Requirements

### Basic Information

- must be **easy to identify, legible**, in permanent print and in English or French. (3.4)

### Retaining documents

- Consignors and drivers must retain shipping documents as it was prepared for a period of two years. (3.11)

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## Shipping Document

- **Consignor's** name, address and their 24hr. contact phone number or the number of a contracted group.
- **Date** shipping document was prepared



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## Shipping Document

### ➤ Description of the dangerous goods

- shipping name
- primary classification
- subsidiary class in parentheses
- UN number
- packing group

- **Mass or Volume** of the goods (kilograms or liters)
- **Quantity** of dangerous goods, including number of packages

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## Shipping Document

- **Consignee's and Carrier's** name and address (good practice but not required)
- 24-hour emergency telephone number or  
– Canutec (emergency) – 1-613-996-6666
- ERAP # when required.

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## Highlighting Dangerous Goods

Dangerous goods must be easily distinguishable from other items on a shipping document by:

- Placing dangerous goods first under a heading "Dangerous Goods."
- Highlighting them on the document.
- Marking them off in a specific check box (X) marked DG.

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### Exercise

Do you have to use one of the shipping names located in Column 2, Schedule 1? Or can you use something familiar to your company? Why?

What does it mean if something is forbidden in Column 3?

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### Learning Objective 4

Practicing Looking Up Information  
in the Schedules and Guides Found  
in the Regulations

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### Schedules

*Schedule 1- Dangerous Goods are listed by UN #*

*Schedule 2- Special Provisions*

*Schedule 3- Dangerous Goods are listed in  
Alphabetical order.*

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### Schedule 1

- Dangerous Goods are listed by UN#.
- Turn to Schedule 1

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### Schedule 2

- Describes special provisions that must be met for specific products to be shipped.
- The provisions are listed in Column 5 of Schedule 1
- Discuss the information provided in schedule 2.

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### Schedule 3

Dangerous goods are listed in this schedule  
alphabetically.

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### Exercise

Find the UN number for the following:

- Gasoline \_\_\_\_\_
- Compressed Oxygen \_\_\_\_\_
- Infectious Substance Affecting Humans \_\_\_\_\_

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### Exercise

- Using Schedule 1, Schedule 2, and possibly Schedule 3, determine the following information for Carbon Dioxide, Dry Ice:
- UN Number \_\_\_\_\_
- Special Provisions \_\_\_\_\_

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### Appendix 3



A list of regulated Infectious Substances sorted into either Category A or Category B substances.



If you do not know the UN number or Shipping Name of a substance, you can look up the substance by its Technical Name in Appendix 3.



Once you know what category that substance belongs to, you can then look it up by the UN Number and/or the Shipping Name.



Appendix 3 is not an exhaustive list; it is there to act as a guide for those classifying infectious substances.

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### Practice Exercise

SAFE WORKPLACES

For the following, fully classify the substance. Remember to include the UN Number, Shipping Name, Primary Class and Packing Group/Category.

Nipah Virus

Hepatitis C Virus

COVID-19 PCR Test Sample

Drug/Alcohol Screening Test

HantaVirus

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### Emergency Response Assistance Plan

#### *What is an Emergency Response Assistance Plan?*

- An ERAP is a specialized response plan that a consignor must have registered with Transport Canada to deal with spills of certain dangerous goods shipped in Canada.
- When one of these Dangerous Goods is being shipped the consignor must display the ERAP # on the shipping document.

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### ERAPs

- If an ERAP is required, it is indicated in Column 7 of Schedule 1.
- ERAP must:
  - be developed by the person who offers for transport or imports the dangerous goods.
  - be approved and filed with Transport Canada
- Transport Canada will issue a registration number for an ERAP; once it is approved, this registration number must then be shown on the shipping document whenever shipping specific products that require an ERAP.

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No ERAP	
Load less than 500 kg	No placards required
Load greater than 500 kg one class	Primary class placard
Load greater than 500 kg more than one class	Individual primary class placards or danger placard
ERAP Required	
Any quantity, one class, ERAP required	Primary Class and UN Number
Any quantity, more than one class with ERAP required	Primary Class and UN Number for each dangerous good
Mixed load containing at least one ERAP	Primary Class and UN Number for each ERAP dangerous good
<ul style="list-style-type: none"> <li>consider ERAP goods first then consider other goods as if they were separate, therefore under 500 kg no additional placards, over 500 kg follow rules above</li> </ul>	<ul style="list-style-type: none"> <li>Primary Class for each good or danger placard if total weight is over 500 kg</li> <li>NO additional placards if combined weight of other goods is less than 500 kg</li> </ul>
Liquids or Gases in Bulk	Primary Class and UN Number

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## Learning Objective 5

### Examine Requirements for Means of Containment and Certification Marks

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Safety Marks - Labels		
Category A	Category B	Exempt Specimen
If you are shipping a Cat. A, you must label the pack with an infectious substance label. This label is illustrated in the Appendix to Part 4 of the TDC Regulations.	When shipping a Category B infectious substance, section 1.39 and 4.22.1 say you must label the package with the "Category B mark" illustrated in the appendix to Part 4.	No label required.
		
The text on the (bilingual) label is: <b>INFECTIOUS IN CASE OF DAMAGE OR LEAKAGE IMMEDIATELY NOTIFY LOCAL AUTHORITIES AND CANUTEC 613-996-6666</b>	The text on the label is: <b>UN3373</b>  <b>24-Hour Telephone Number</b>	
Extra marking requirements: The shipping name and UN number <input type="checkbox"/> UN2814 - Infectious Substance, Affecting Humans, or <input type="checkbox"/> UN2900 - Infectious Substance, Affecting Animals	Extra marking requirements: The shipping name <input type="checkbox"/> Shipping name is required if you are using the exemption under section 1.39	Extra marking requirements: <input type="checkbox"/> Exempt Human Specimen <input type="checkbox"/> Exempt Animal Specimen

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## Safety Marks - Placards

Does my vehicle need a placard?

Placards are required when the:

- Gross mass of the infectious substance is 500kg or more
- Shipment requires an Emergency Response Assistance Plan

Who is responsible for placarding the vehicle?

The carrier is responsible for displaying the placard. Once the vehicle leaves the site, the carrier is responsible for placarding

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## Exposure

A release occurs when an infectious substance is released from the protective packaging in an uncontrolled manner, resulting in physical contact with humans or animals

How can we prevent a release?

Packaging substances appropriately, using the proper means of containment

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## Means of Containment

**Types of Containers:**

When shipping infectious substances there are certain types of packaging required depending on the category it belongs to.

**P620 Packaging** Intended to transport a Category A Infectious Substances, however, can also be used to ship Category B and exempt medical or clinical waste.

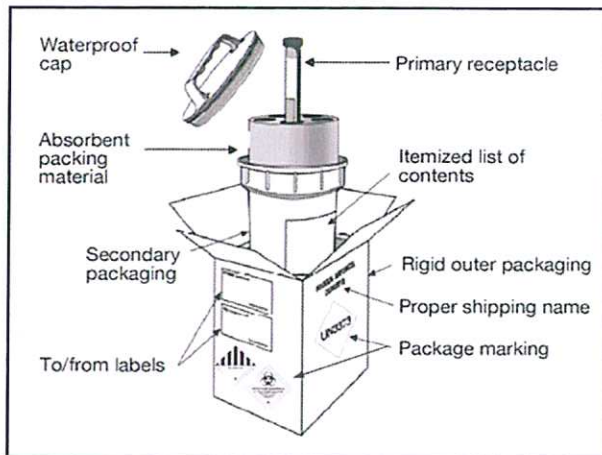
**P650 Packaging** Typically used for Category B Infectious Substances. This includes any Category A substances that may be shipped as Category B.

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## Safety Marks

- It is the responsibility of the **consignor** to make sure that all packages containing dangerous goods are properly labeled and marked.
- If any of these safety marks are lost or damaged during transport, the carrier must replace them.
- Once the consignor decides which labels are required, it is important that they be visible during shipping. The label must **never** be placed on the bottom of the package, and it must not be put on the top if another package is going to be stacked on it.

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## Safety Marks: Labels



For a small package, only **one** label or set of labels is required as long as it is visible



If the package is larger than two cubic meters (about two cubic yards) there must be four labels, placed on all sides of the package

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## Safety Marks: Placards Required

- For loads greater than 500 kgs.
- Required on all four sides.
- Contains a Dangerous Good that requires a ERAP
- If the load changes during transport then the placards must be changed along the way.

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## Learning Objective 6

Identify the Special Situations and Exemptions Found in the Regulations

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## What Is An Exemption

- A special allowance or provision within the regulations that permits certain materials, quantities, or situations to be exempt from some or all of the usual regulatory requirements.
- These exemptions are often based on the understanding that the risk posed by the exempted materials or situations is minimal.

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## What Are Exemptions?

- 1.39 - Biological Products Exemption
- 1.41 - Human or Animal Specimens Believed Not to Contain Infectious Substances Exemption
- 1.42 - Human or Animal Specimens Believed Not to Contain Infectious Substances Exemption

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## What Are Exemptions?



1.42.1 - Tissues or Organs for Transplant Exemption



1.42.2 - Blood or Blood Components Exemption



1.42.3 - Medical or Clinical Waste

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## Are there Exemptions?

YES!

**Human/Animal/Biological** specimens are exempt from certain parts of the TDG Regulations if you have NO REASON TO BELIEVE that the specimen contains an infectious substance.

Examples of specimens that may be transported under this exemption are:

- Blood/urine specimens for blood sugar levels, hormone levels, cholesterol levels.
- Drug/Alcohol screening
- Pregnancy tests
- Biopsies to detect cancer

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## Are There Exemptions?

YES!

**Medical and Clinical Waste** is exempt from certain parts of the TDG Regulations if you have NO REASON TO BELIEVE that the specimen contains an infectious substance. Exempt Medical or Clinical waste must be marked as:

Clinical Waste N.O.S.  
(BIO) Medical Waste N.O.S.  
Regulated Medical Waste N.O.S.

The dangerous goods must be in an appropriate means of containment as outlined in the TDG regulations and marked with a biohazard symbol.

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## Examples of Waste Exemptions

### Clinical Waste, N.O.S.

- Human Tissue or Animal Tissue
- Bodily Fluids or Blood

### (BIO) Medical Waste, N.O.S.

- Solids generated in the diagnosis, treatment or immunization of human beings.
- For example: Sharps, swabs, gloves, bandages

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## Examples of Waste Exemptions

### Regulated Waste, N.O.S.

- Contaminated items that could release blood or other potentially infectious material during handling.

*For example:* Contaminated sharps, isolation waste, lab materials such as culture dishes, test tubes etc.

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## Are All Specimens Exempt?

NO!!!!

If you **HAVE REASON TO BELIEVE** that the specimen contains Class 6.2 micro-organisms, the specimens are classified as Class 6.2 and assigned to either Category A or B.

If the specimens are part of routine screening tests, they would be shipped as per section 1.42 of the TDG Regulations (exempt specimens)

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## Learning Objective 7

### Discuss the Accidental Release and Imminent Accidental Release Reporting Requirements and Limits

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## Reporting Spills and Imminent Release

- Call provincial authority which could be the local police or Saskatchewan Spill Center 1-800-667-7525
- Person's Employer
- The Shipper
- Owner of the Vehicle (if different from Employer)
- CANUTEC (Class 6.2) 1-613-996-6666

***\*Immediate Reporting is the responsibility of the person in possession of shipment.***

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Class	Quantity	Emission Level
1	Any quantity that: (a) could pose a danger to public safety or is greater than 50 kg, or (b) is included in Class 1.1, 1.2, 1.3 or 1.5 and is (i) not subject to special provision 85 or 86 but exceeds 10 kg net explosives quantity, or (ii) subject to special provision 85 or 86 and the number of articles exceeds 1000.	
2	Any quantity that could pose a danger to public safety or any sustained release of 10 minutes or more	
3	200 L	
4	25 kg	
5.1	50 kg or 50 L	
5.2	1 kg or 1 L	
6.1	5 kg or 5 L	
6.2	Any quantity	
7	Any quantity that could pose a danger to public safety	An emission level greater than the emission level established in section 20 of the "Packaging and Transport of Nuclear Substances Regulations"
8	5 kg or 5 L	
9	25 kg or 25 L	

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## Reporting Spill and Imminent Releases

Province	Emergency Authority or Telephone Number
Alberta	Local Police and <u>the appropriate provincial authority at 1-800-272-9600</u>
British Columbia	Local Police and <u>the Public Emergency Program at 1-800-663-3456</u>
Manitoba	Local Police/Fire Dept. and <u>the Dept. of Conservation at 1-204-945-4888</u>
New Brunswick	Local Police or 1-800-565-1633
Newfoundland	Local Police and the Canadian Coast Guard at 1-709-772-2083
Northwest Territories	The appropriate authorities at 1-867-920-8130
Nova Scotia	Local Police or 1-800-565-1633 or (902) 426-6030
Nunavut Territory	Local Police and the Nunavut Emergency Services at 1-800-693-1666
Ontario	Local Police
Prince Edward Island	Local Police or 1-800-565-1633
Quebec	Local Police
Saskatchewan	Local Police or 1-800-667-7525
Yukon Territory	The appropriate authorities at 1-867-667-7244

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## Immediate Reporting

Report must contain:

- Shipping name or UN number
- The quantity that was in the container before the spill; how much spilt
- Description of means of containment and transport conditions
- Location of release
- Number of people injured or killed
- Estimate of number evacuated if applicable.

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### 30 Day Follow-up (8.4)

Any time an immediate report was necessary you must do a follow-up report to the Director General. All information that was needed immediately must be on this form as well as:

- Name, address and phone number of place of business providing information
- Classification details
- Consignor name and address
- Date and location of spill

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### Reporting



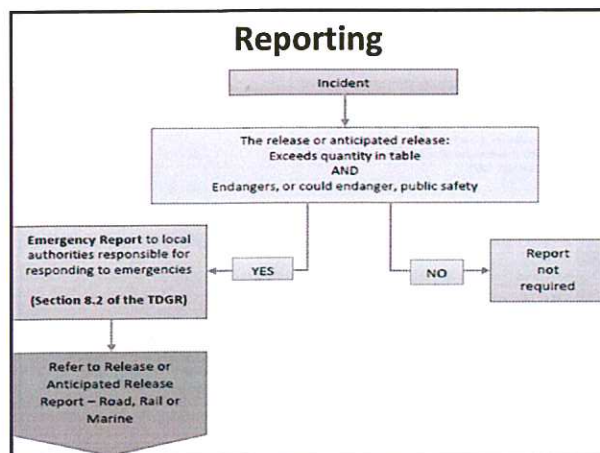
Category A: The emergency response contact would be CANUTEC, and if there is a special provision 84, must have an ERAP. The phone number for CANUTEC (1.888.226.8832 toll free or 1.613.996.6666) must be displayed on the shipment container.



Category B: A 24 hour phone number must be used and displayed on the container. This 24 hour phone number is a contact number of a person who must answer the call in an emergency and has knowledge of the dangerous goods being shipped.

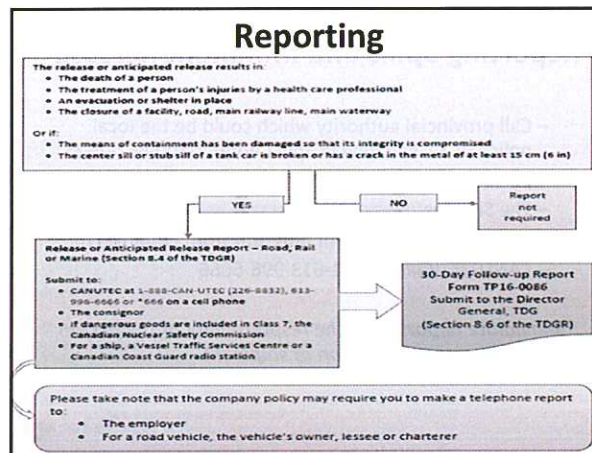
128

### Reporting



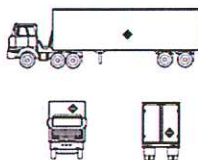
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### Reporting



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### Test Time!



Thank you

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The Following Slides  
Pertain to Teaching  
Air Regulations for Shipping  
Infectious Substances

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## Course Outline

- |                             |                          |
|-----------------------------|--------------------------|
| 1. IATA Regulations         | 7. Safety Marks          |
| 2. Limitations & Variations | 8. Documentation for Air |
| 3. Identification Section   | 9. Special Provisions    |
| 4. IATA Classifications     | 10. Handling             |
| 5. Means of Containment     | 11. Reporting            |
| 6. Packing Instructions     | 12. Summary              |

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## IATA & ICAO

The organizations who publish the rules for transporting dangerous goods by air.

### IATA

- International Air Transport Association
- Trade association of airlines
- Controls 84% of air traffic

### ICAO

- International Civil Aviation Organization
- Specialized United Nations Agency that works with countries, industry and aviation agencies to develop international standards and practices for safe air transport.

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## IATA Regulations

Govern air transport.

Based on the ICAO Technical Instructions for the Safe Transport of Goods by Air.

Provided by IATA, who layers their own requirements on top of the ICAO requirements.

Divided into:

- 10 Sections
- Appendices A to H
- Index

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## IATA Regulations

Section	Topic	Highlights
1	Applicability	Responsibilities
2	Limitations	State & Operator Variations
3	Classification	Cat. A List; Exemptions
4	Identification	Schedule 1 & 3 Equivalents
5	Packing	Packaging Instructions
6	Packaging	Specifications
7	Marking & Labelling	
8	Documentation	Shipper Declaration
9	Handling	Package Acceptance
10	Radioactive Materials	
Appendices	A to H	Glossary & Country Info.
Index		

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## Limitations & Variations

Forbidden & Restricted Items see P.24-25 Table 2.3A

### State Variations

- Extra restrictions set by national governments that apply to dangerous goods going to, from or through their country.
- Each country has a 3-letter code ending with 'G' for government; Canada (CAG), the USA (USG).

### Operator Variations

- Extra restrictions set by individual airlines for dangerous goods.
- Each airline has a 2-letter code; Air Canada (AC), Fedex (FX), UPS (5X)

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## Identification Section

Table 2.6.A

UN No.	Shipping Name and Description	Hazard Label(s)	Packing Group	DOT see 171.16	Passenger and Cargo Aircraft		Cargo Aircraft Only		IATA Code	ICAO Code
					Max Net Qty (kg)	Max Net Qty (kg)	Max Net Qty (kg)	Max Net Qty (kg)		
2811	INFECTIOUS SUBSTANCE, AFFECTING HUMANS	6.2	Infectious substance	EO	Forbidden	620	50 mL	620	4L	A81
2812	INFECTIOUS SUBSTANCE, AFFECTING ANIMALS	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2813	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS	6.2	Infectious substance	EO	Forbidden	620	50 mL	620	4L	A81
2814	INFECTIOUS SUBSTANCE, AFFECTING ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2815	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
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2876	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2877	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2878	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2879	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2880	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2881	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2882	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2883	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2884	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2885	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2886	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2887	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2888	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2889	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2890	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2891	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2892	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2893	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2894	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2895	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2896	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2897	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2898	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2899	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81
2900	INFECTIOUS SUBSTANCE, AFFECTING HUMANS AND ANIMALS ONLY	6.2	Infectious substance	EO	Forbidden	620	50 g	620	43g	A81

Section 5.1 Yellow pages

Section 4.4

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## IATA Classification of Biological Materials

### Category A

UN 2814 (Infectious substance, affecting humans)

UN 2900 (Infectious substance, affecting animals only)

Infectious substances in a form such that exposure risks permanent disability or fatal disease in otherwise healthy humans or animals.

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## IATA Classification of Biological Materials

### Category B

UN 3373 (Biological substance, Category B)

Infectious substance in a form such that exposure does not risk permanent disability or fatal disease in otherwise healthy humans or animals.

In other words, infectious substances that do not meet the criteria to be considered Category A!

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## IATA Classification of Biological Materials

### Medical or Clinical Wastes

UN 3291

Biomedical waste, n.o.s.

Clinical waste, n.o.s.

Medical waste, n.o.s.

Regulated medical waste, n.o.s.

Medical or clinical wastes containing **Category B** infectious substances must be assigned to UN 3291.

Medical or clinical wastes containing **Category A** infectious substances must be assigned to UN 2814 or UN 2900.

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## IATA Classification of Biological Materials

Fixed tissues?

Inactivated pathogens?

Decontaminated clinical wastes or medical equipment?

These are **not included** in Division 6.2, but may meet the criteria for inclusion in another Class or Division **if the consignment contains another hazardous substance:** corrosive disinfectants, flammable fixatives, etc.

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## Packing Instructions for Air

Specific to each dangerous good, listed in column I of the Identification Table in Section 4.

For:

- UN 2814 & UN 2900 follow Packing Instruction 620
- UN 3373 follow Packing Instruction 650
- UN 3291 follow Packing Instruction 622
- UN 1845 follow Packing instructions 954

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## Means of Containment

**Packaging Specifications for Infectious Substances**  
**Required markings** (see Table 6.5.A):

- (a) the United Nations packaging symbol
- (b) the code designating the type of packaging (6.0.3)
- (c) the text "Class 6.2"
- (d) the last 2 digits of the year of manufacture
- (e) the State authorizing the allocation of the mark
- (f) the name or identification mark of the manufacturer
- (g) for packaging meeting the requirements of 6.5.4.1.6, a U must follow the other markings

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## Packing Instructions for Air

### UN2814 & UN2900: Packing Instruction 620

#### Requirements:

- (a) Inner packaging comprised of a leak-proof primary receptacle, leak-proof secondary packaging, and absorbent material sufficient to absorb the entire contents of the primary receptacle
- (b) Itemized list of contents between the secondary packaging and the outer packaging
- (c) Rigid outer packaging not less than 100 mm in any dimension

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## Packing Instructions for Air

### UN2814 & UN2900: Packing Instruction 620

#### Requirements:

- (d) The primary receptacle or the secondary packaging must be able to withstand, without leakage, an internal pressure of 95 kPa and temperature range of -40C to 55C
- (e) Inner packagings must not be consolidated with other, unrelated, types of goods
- (f) Less than 30 mL of Class 3, 8 or 9 may be packed in each primary receptacle provided it is below the Excepted Quantity for that substance

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## Packing Instructions for Air

### UN2814 & UN2900: Packing Instruction 620

#### Additional Requirements:

- (a) When the infectious substances are unknown but suspected of meeting the requirements for inclusion in Category A (a patient specimen, for example) the words "Suspected Category A Infectious Substance" must be shown in parentheses following the proper shipping name on the itemized list of contents inside the outer packaging.
- (b) All packages must be marked durably and legibly on the outside with the name and phone number of the person responsible.

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## Packing Instructions for Air

### UN2814 & UN2900: Packing Instruction 620

#### Temperature-dependent requirements:

- (a) Ambient or higher temperature: primary receptacles must be glass, metal or plastic. Must be made leak-proof by crimping, heat seal, skirted stopper, paraffin sealing tape or locking closure.
- (b) Refrigerated or frozen: refrigerant must be placed around secondary packaging or in an overpack. For wet ice, the over pack must be leak-proof. For dry ice, the packaging must permit the release of Carbon dioxide.
- (c) Liquid Nitrogen: primary receptacles must be plastic capable of withstanding low temperatures. Follow provisions for N<sub>2</sub>

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## Packing Instructions for Air

### UN3373: Packing Instruction 650

#### Requirements:

- (a) Inner packaging comprised of a leak-proof primary receptacle of no more than 1L, leak-proof secondary packaging, and absorbent material sufficient to absorb the entire contents of the primary receptacle
- (b) Itemized list of contents between the secondary packaging and the outer packaging
- (c) Rigid outer packaging not less than 100 mm in any dimension or holding more than 4L

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## Packing Instructions for Air

### UN3373: Packing Instruction 650

#### Requirements:

- (d) The primary receptacle or the secondary packaging must be able to withstand, without leakage, an internal pressure of 95 kPa and temperature range of -40C to 55C
- (e) Less than 30 mL of Class 3, 8 or 9 may be packed in each primary receptacle provided it is below the Excepted Quantity for that substance

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## Packing Instructions for Air

### UN3373: Packing Instruction 650

#### Temperature-dependent requirements:

- (a) Refrigerated or frozen: refrigerant must be placed around secondary packaging or in an overpack. For wet ice, the over pack must be leak-proof. For dry ice, the packaging must permit the release of Carbon dioxide.
- (b) Liquid Nitrogen: primary receptacles must be plastic capable of withstanding low temperatures. Follow provisions for nitrogen (N<sub>2</sub>).

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## Packing Instructions for Air

### UN3291: Packing Instruction 622

- (a) Outlines container specifications (Packing Group II performance Standards) for shipping medical waste
- (b) Packaging must be sufficient to contain liquids present, with absorbent able to absorb the contents
- (c) Packaging intended to contain sharp objects must be puncture resistant and retain liquids under performance test conditions for the packaging

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## Safety Marks for Air

### UN2814 & UN2900: Packing Instruction 620



#### On the outside of the rigid outer container:

- a) The proper shipping name and UN Number
- b) The technical name and NET QUANTITY of the substance
- c) The name and address of the shipper and of the consignee must be on each package
- d) The name and phone number of a person responsible must be provided on the air waybill or on the package
- e) Labelling for any secondary hazards contained within the package (e.g., dry ice).

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## Safety Marks for Air

### UN3373: Packing Instruction 650



#### On the outside of the rigid outer container:

- (a) The name and address of the shipper and of the consignee must be on each package
- (b) The name and phone number of a person responsible must be provided on the air waybill or on the package
- (c) "BIOLOGICAL SUBSTANCE, CATEGORY B"
- (d) The classification must be in accordance with 3.6.2
- (e) The incident report requirements in 9.6.1 must be met
- (f) The inspection for damage or leakage requirements in 9.4.1 and 9.4.2

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## Documentation for Air

### Section 8.0.1

A "Shipper's Declaration for Dangerous Goods" must be completed by the shipper/consignor for each consignment of dangerous goods, except as provided in 8.0.1.2.

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## Documentation for Air

### Section 8.0.1.2

The following articles or substances do not require a "Shipper's Declaration for Dangerous Goods":

- Dangerous goods in excepted quantities
- UN3373, Biological Substance, Category B (see Packing Instruction 650)
- UN1845, Carbon dioxide, solid (Dry Ice) when used as a refrigerant for other than dangerous goods (see Packing Instruction 954(c))

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## Documentation for Air

"Shipper's Declaration for Dangerous Goods":

- Required for UN2814 and UN2900
- Must be printed in red ink (or red & black ink) on white paper
- Must be on 11x17 or 11x8.5 inch paper
- If the consignment contains both dangerous and non-dangerous goods, the dangerous goods must be listed first
- The number of copies required is set by the carrier
- Proper shipping names must be provided, and where shipping names are followed by a star, technical names must be provided (UN2814, UN2900)
- Must be signed by consignor/shipper

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## Shipper's Declaration for Dangerous Goods

\*Required only for Category A shipments!

SHIPPER'S DECLARATION FOR DANGEROUS GOODS		Provide at least three copies to the carrier	
1. Shipper Julie Sender Street Address Cambridge, B.C. Canada Telephone: Phone		No. of copies: 3 Page 1 of 3 Pages Shipper's National Number: 5700	
2. Consignee Public Receiver Street Address City, California, U.S.A. Telephone: Phone		This shipper's declaration was prepared using a FedEx Express template. It must be used (S/N, 1st) 1. Class of dangerous goods 2. Shipments using an IATA or IATA service 3. Shipments requiring a special handling	
3. Two completed and signed copies of this Declaration must be submitted to the carrier. 4. Declaration not valid if: The document is not in the original language The document is not signed The document is not dated The document is not signed by the shipper		<b>WARNING</b> Failure to comply with all requests with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. I hereby declare, under penalty of law, that the information provided is true and correct.	
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## Shipping on Dry Ice by Air

### UN1845 - Carbon dioxide, solid

#### Requirements:

- (a) the NET WEIGHT of dry ice contained in each package must be shown in metric (kg) measurements on the outside of the package
- (b) the package must allow for the venting of carbon dioxide

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## IATA Special Provisions for Biological Materials

### For UN2814, UN2900

**A81:** The quantity limits shown in Columns J and L do not apply to body parts, organs or whole bodies.

**A140:** Notwithstanding the "★" against the proper shipping name in Column B, the technical names need not be shown on the package. When the infectious materials are unknown but suspected to meet the criteria for inclusion in Category A, the words "Suspected Category A infectious substance" must be shown in parentheses, following the proper shipping name on the Shipper's Declaration, but not on the outer packaging.

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## IATA Special Provisions for Dry Ice

### For UN1845

**A48:** Packaging tests are not considered necessary.

**A151:** When dry ice is used as a refrigerant for other than dangerous goods loaded in a unit load device or other type of pallet, the quantity limits per package shown in Columns J and L in Section 4.2 do not apply. In such case, the unit load device or other types of pallet must be identified to the operator and must allow the venting of Carbon dioxide gas to prevent a dangerous build up of pressure.

**A805:** Carbon dioxide, solid may be placed directly within an overpack that meets PI954 to cool other dangerous goods.

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## Handling of Class 6.2

### 9.4.1 Inspection for Damage or Leakage

### 9.4.2 Infectious Substances

If damage or leakage of a Class 6.2 package is found, the handler must:

- avoid or minimize handling the package
- inspect adjacent packages for contamination and put aside any that may have been contaminated
- inform the appropriate health authority and provide information on any other countries of transit where people may have been exposed
- notify the shipper and/or the consignee

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## Reporting

### Section 9.6.1 Dangerous Goods Accidents & Incidents (excerpt)

An operator must report dangerous goods accidents or incidents to the appropriate authorities...in accordance with the reporting requirements of those authorities.

CAG-12 (IATA's code for Canada): in Canada reporting must be done in accordance with the requirements found in Part 8 - Accidental Release and Imminent Accidental Release of the Canadian TDG Regulations.

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## Reporting

### IATA 9.6 (excerpt)

Any type of occurrence must be reported:

- Accident: serious injury sustained by a person
- Incident: injury to a person, property or environmental damage, fire breakage, spillage, leakage of fluid or radiation that seriously jeopardizes the aircraft or its occupants
- When undeclared or mis-declared dangerous goods are discovered

Initial report should be dispatched within 72 hours, written report sent as soon as possible to the competent authority.

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- Duty to take reasonable emergency measures  
Obligation de prendre des mesures d'urgence  
(2) Every person required to make a report shall, as soon as possible in the circumstances, take all reasonable emergency measures to reduce or eliminate any danger to public safety that results or may reasonably be expected to result from the release.

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## Summary

- The IATA Dangerous Goods Regulations set out the rules for transporting dangerous goods by air.
- IATA Classification of biological materials is similar to Ground - both follow international conventions.
- Packaging and Documentation requirements are specific to each classification.
- Handlers must inspect packages for damage/leakage.
- Damaged/leaking packages must be reported.

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✓Exam

✓Evaluation

✓Certificate

Thank you for attending! Be safe.

SASKATCHEWAN ASSOCIATION FOR  
**SAFE WORKPLACES**  
IN HEALTH

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SASKATCHEWAN ASSOCIATION FOR  
**SAFE WORKPLACES**  
IN HEALTH

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