

PA210 (2)
Material Safety Data Sheet
INFORMATION TELEPHONE NO. 1-919-433-1334
SWIFT (R) PA210-2N

MSDS No: 4773
Forbo Adhesives, LLC

P.O. Box 110447
Research Triangle Park, NC 27709-0447

ALL CHEMICAL EMERGENCIES
1-800-424-9300

Effective Date: 08/11/04

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1. PRODUCT IDENTIFICATION

Trade Name: SWIFT (R) PA210-2N
Chemical Family: Aqueous Adhesive
Intended Use: Adhesive

NFPA Hazard Classification

Health Hazard: 1
Fire Hazard: 0
Reactivity: 0
Special Hazard:

HMIS Hazard Classification:

Health: 1 Slight Hazard
Flammability: 0 Minimal Hazard
Reactivity: 0 Minimal Hazard
Personal Protection:

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Name	ACGIH TLV		OSHA PEL	AMOUNT
		TWA	STEL		
57556	1,2-Propanediol	NE	NE	NE	1.00 - 2.00 %
7732185	Water	NE	NE	NE	25.00 - 35.00
Proprietary	Plasticizer(s)	NE	NE	NE	5.00 - 15.00
Proprietary	Polymer Solids	NE	NE	NE	55.00 - 65.00

Refer to Section 8, Subheading "Exposure Guidelines", for additional information concerning exposure limits.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance white Liquid, slight acetic odor Vapors may cause eye irritation. Vapors are irritating to the respiratory tract. Contact may cause skin irritation.

Route(s) of Entry:

Inhalation, skin and eye contact.

Acute Exposure:

EYES: Direct contact with this material may cause eye irritation including tearing and redness. INHALATION: Inhalation of vapor or aerosol causes irritation of the respiratory tract (nose, throat, and lungs). SKIN:

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Contact may cause skin irritation. INGESTION: No hazard in normal industrial use.
Chronic Exposure:
Prolonged or repeated contact with skin may cause irritation and dermatitis (inflammation).
Carcinogenicity:
This material does not contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.
=====

4. FIRST AID MEASURES

Eye Contact:
Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.
Skin Contact:
Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
Ingestion:
Give the victim one or two glasses of water or milk to drink. Never give anything by mouth to an unconscious person. IMMEDIATELY SEEK MEDICAL ATTENTION.
Inhalation:
Remove affected individual(s) to fresh air. Seek medical attention if breathing difficulty develops.
=====

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable
Flammable Limits in Air (Lower): Not applicable
Flammable Limits in Air (Upper): Not applicable
Autoignition: Not applicable

Fire Fighting Extinguishing Media:
Use carbon dioxide, foam, dry chemical or water fog to extinguish fire.
Fire Fighting Equipment:
Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use.
Fire Fighting Instructions:
Containers of this material may build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed containers.
Fire and Explosion Hazards:
This material will not burn unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat.
Hazardous Combustion Products:
Irritating and toxic gases, vapors, and dusts may be generated and

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released during combustion.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Barricade the area to restrict access. **SMALL SPILL:** Absorb the liquid with inert material (such as dry sand or earth) and place it in a chemical waste container. **LARGE SPILL:** Persons not wearing protective equipment (see Section 8) should be evacuated from area of spill until cleanup has been completed. Stop leak at source when it is safe to do so. Dike and pump the liquid into waste containers. Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. After clean-up, wash the contaminated area with detergent and water.

7. HANDLING AND STORAGE

Signal Word:

C A U T I O N

Handling Information:

An eyewash station and a safety shower should be readily accessible to workers wherever this material is stored or used.

Storage Information:

Keep from freezing. Store in a dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

There are no exposure limits assigned to the polymer in this product by the Occupational Safety and Health Administration (OSHA) or American Conference of Governmental Industrial Hygienists (ACGIH). The American Industrial Hygiene Association (AIHA) have established, for propylene glycol (aerosol), a Workplace Environmental Exposure Level (WEEL) of 10 mg/m³ Time Weighted Average (TWA) and propylene glycol (total vapor and aerosol), a WEEL of 50 ppm Time Weighted Average (TWA), for an 8 hour exposure.

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels of irritating vapors.

Eye Protection:

wear 1) safety glasses with side shields and a faceshield or 2) goggles and a faceshield.

Skin Protection:

Nitrile, neoprene (R) , or rubber gloves should provide protection against skin contact.

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Respiratory Protection:

Respiratory protection is not generally required during normal use and handling. The need for respiratory protection should be evaluated if this material is sprayed or heated in poorly ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	White
Odor:	Slight acetic
Odor Threshold:	Not available
Physical State:	Liquid
Solubility in Water:	Dispersible
Viscosity:	1200 - 1500 cps at 79 degrees F (26 degrees C)
Vapor Pressure:	Not available
Specific Gravity:	1.07 (Water = 1) at 25 degrees C (77 degrees F)
Boiling Point:	> 212 degrees F (> 100 degrees C) Water
Melting Point:	Not available
Freezing Point:	< 32 degrees F (< 0 degrees C) Water
Evaporation Rate:	< 1 (BuAc=1)
Vapor Density:	> 1 (AIR=1)
% Volatile:	28 - 34 %
pH:	4.5 - 5.5
Coefficient of water/oil:	Not available

10. STABILITY AND REACTIVITY

Stability:

Stable at normal temperatures and storage conditions.

Incompatibility:

No incompatibilities have been identified.

Hazardous Decomposition Products:

Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors. Acetic acid Acrolein

Hazardous Polymerization:

Hazardous polymerization will NOT occur.

Conditions to Avoid:

Freezing temperatures (less than 32 degrees F or 0 degrees C).

11. TOXICOLOGICAL INFORMATION

Acute Eye Toxicity:

No information is available.

Acute Skin Toxicity:

No information is available.

Acute Inhalation Toxicity:

No information is available. Aerosol may be irritating.

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Acute Oral Toxicity:

Propylene Glycol: oral LD50 (rat), 30 g / kg; (rabbit), 18 g / kg; (dog), 19 g / kg; (mouse), 23.9 - 31.8 g / kg; (guinea pig), 18.4 - 19.6 g / kg.

Chronic/Carcinogenicity:

This material does not contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the United States Occupational Safety and Health Administration (OSHA) as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Propylene Glycol: LC50 (Goldfish), > 5000 mg / L / 24 hr (measured, static); (Brine Shrimp), > 10,000 mg / L / 24 hr.; EC50 (Daphnia magna), > 10,000 mg / L / 48 hr (nominal, static).

Environmental Fate:

Propylene Glycol, if released to the atmosphere, is degraded rapidly. Physical removal from air by rainfall is possible. If released to water, it is expected to degrade relatively rapidly via biodegradation. If released to soil, relatively rapid biodegradation should also occur. Significant leaching in soil can be predicted.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Not a RCRA hazardous waste. Disposal of this material is not regulated under RCRA. Consult federal, state and local regulations to ensure that this material and its containers, if discarded, is disposed of in compliance with all regulatory requirements.

RCRA Hazard Class:

NOT A RCRA HAZARDOUS WASTE: When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

14. TRANSPORT INFORMATION

DOT / IATA / IMDG / TDG:

Bulk and Non-Bulk

Proper Shipping Name:

NOT REGULATED

Technical Shipping Name (If n.o.s.):

Hazard Class:

ID Number:

Packing Group:

Label:

Placard:

Marine Pollutant:

ERG Number:

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15. REGULATORY INFORMATION

Occupational Safety and Health Act (OSHA):

This material is not classified as hazardous under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III: Section 304 - CERCLA:

Reportable Quantities have not been established for any of this material's components.

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):

This material is not a hazardous chemical

SARA Title III: Section 313 Toxic Chemical List (TCL):

This product does not contain Section 313 Reportable Ingredients.

TSCA Section 8(b) - Inventory Status:

All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

TSCA Section 12(b) - Export Notification:

This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification requirements.

Australian Inventory Status:

This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

Canadian Inventory Status:

All components of this material are listed on the Canadian Domestic Substances List (DSL).

Canadian WHMIS:

This material is not classified as a controlled product under the Canadian Workplace Hazardous Material Information System.

European Inventory Status (EINECS):

All components are either listed or are exempt from being listed, on the EINECS chemical inventory. The polymer portion of this product is manufactured from reactants which are listed on EINECS and meets the EINECS definition of an exempt polymer.

Korean Inventory Status:

This product contains only chemicals which are currently listed on the Korean Chemical Substances List.

California Proposition 65:

W A R N I N G: This material contains a chemical known to the state of California to cause cancer. The California Safe Drinking Water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical: trace amounts of Acetaldehyde and trace amounts of Formaldehyhyde

Additional Canadian Regulatory Information:

This product contains the following chemical(s) listed on the WHMIS Ingredient Disclosure List at or above the specified concentration limit:
1,2-Propylene Glycol (CAS# 57-55-6)

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16. OTHER INFORMATION

MSDS No: 4773
Reason Issued: Updated Manufacturer
Prepared By: Product Safety & Compliance Department
Supersedes Date: 02/07/03

Disclaimer:

This information is provided in good faith and is correct to the best of Forbo's knowledge as of the date hereof and is designed to assist our customers; however, Forbo makes no representation as to its completeness or accuracy. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications. Any use which Forbo customers or third parties make of this information, or any reliance on, or decisions made based upon it, are the responsibility of such customer or third party. Forbo disclaims responsibility for damages, or liability, of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES. IN NO EVENT SHALL FORBO BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.



SWIFT[®] PA210

AQUEOUS ADHESIVE

Product Data

DESCRIPTION

Swift[®] PA210 is an aqueous adhesive.

APPLICATION

PA210 is specifically formulated for vinyl **laminating** applications where adhesive is applied to the particle board only, allowed to dry almost completely before the vinyl film is hot nipped to form the laminate

FEATURES & BENEFITS

- High Solid Product ⇒ Strong bond and minimum grain raises
- Balanced Properties ⇒ Can withstand temperatures of 160 °F and -20 °F without zippiness
- Economical ⇒ Good mileage and cost savings

TYPICAL PROPERTIES

Color	Off-White
Viscosity	1,200 - 1,600 cps
% Solids	66 - 72 %
Weight/Gallon	8.9 to 9.1 lbs.
pH	4.0 - 5.0

SWIFT[®]
PRODUCTS

Forbo Adhesives, LLC • Swift[®] Products • P.O. Box 110447 • Research Triangle Park, NC 27709 USA • www.forbo.com

The information herein is general information designed to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.



PACKAGING FORM

Non-returnable 55 gallon drums (480 lbs. net), and 300 gallon totes (2800 lbs. net)

STORAGE

For best performance, the product should be stored and used at 65 - 85 °F. **Do not freeze.**

CLEAN UP

Best to clean before drying. Use warm water.

IMPORTANT SAFETY INFORMATION

Avoid contact with skin and eyes. Product will irritate eyes if contact occurs. Skin irritation is possible on prolonged or repeated contact

Before using this or any other chemical product, be sure to read and understand the information on the Material Safety Data Sheet and Product Labels. Remain aware of potential hazards and follow all precautionary measures, handling instructions, and disposal considerations outlined in the MSDS and labels.

For help in a Chemical Emergency, call CHEMTREC at 1-800-424-9300.

TECHNICAL SUPPORT

Forbo Adhesives' technical support staff has extensive practical experience with adhesives and manufacturing techniques. Please do not hesitate to request our assistance through your sales representative.

Rev 0605



4565

Date: NOVEMBER 7, 2005

No. Pages: 4

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SECTION I - IDENTIFICATION OF PRODUCT

Manufacturer's Name
HELMITIN INC.

Emergency Tel No
(416) 239-3105

Address

99 SHORNCLIFFE ROAD, TORONTO, ONTARIO M8Z 5K7

Trade Name And Synonyms

HELMIPRENE 4565, HELMIPRENE 4565RD

Chemical Name And Synonyms

POLYCHLOROPRENE SOLVENT ADHESIVE

Chemical Family

SYNTHETIC ELASTOMERS, RESINS AND SOLVENTS

Molecular Formula

NOT APPLICABLE

SECTION II - HAZARDOUS COMPONENTS OF MIXTURE

Component	%	Threshold Limit Value	Comments
ACETONE	15-40	500 ppm	CAS#67-64-1 LD50 5.8g/Kg ORAL/RAT
PETROLEUM NAPHTHA	10-30	100 ppm	CAS#64742-49-0
HEPTANE	7-13	400 ppm	CAS#142-82-5; LD50 >15g/Kg ORAL/RAT
TOLUENE	7-13	50 ppm	CAS#108-88-3 LD50 3.0g/Kg ORAL/RAT
HEXANES	3-7	50 ppm	CAS#110-54-3; LD50 28.7g/Kg ORAL/RAT TLVs published by ACGIH in 2005

SECTION III - PHYSICAL DATA

Appearance And Odour

LIGHT AMBER OR RED LIQUID, MILD AROMATIC ODOUR

Boiling Point

75°C / NOT APPLICABLE

/ pH

/ NOT APPLICABLE

Specific Gravity (Water=1)

0.82

Percent Volatile (By Weight)

78 ± 2

Vapour Pressure (mm Of Mercury)

180 mm of Hg at 20°C

Vapour Density (Air = 1)

2.7

Evaporation Rate (Butyl Acetate = 1)

8.3

Evaporation Rate (Ethyl Ether = 1)

SLOWER THAN ETHYL ETHER

Solubility In Water

NOT SOLUBLE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Specify Method)
<-18°C TAG CLOSED CUP

Flammable Limits (Percent By Volume)	Lower	Upper
	1.1	12.8

Fire-Extinguishing Media

FOAM, DRY CHEMICAL, CARBON DIOXIDE. WATER MAY BE INEFFECTIVE; THEREFORE USE FOG NOZZLE.

Special Fire-Fighting Procedures

FIRE FIGHTERS CLOSE ENOUGH TO BE IN CONTACT WITH FUMES SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire And Explosion Hazards

TOXIC GASES MAY BE FORMED. VAPOURS MAY CAUSE FLASH FIRE OR IGNITE EXPLOSIVELY.

SECTION V - HEALTH HAZARD DATA**Threshold Limit Value**

50 ppm FOR HEXANES, 50 ppm FOR TOLUENE, 100 ppm FOR PETROLUEM NAPHTHA, 400 ppm FOR HEPTANE, 500 ppm FOR ACETONE.

Effects Of Overexposure

IRRITATION OF EYES, NOSE AND THROAT, HEADACHE, DIZZINESS, IMPAIRMENT OF CO-ORDINATION. AVOID DIRECT CONTACT AS IT MAY CAUSE SKIN DERMATITIS IN SENSITIVE PERSONS. THIS MATERIAL CONTAINS N-HEXANE WHICH MAY CAUSE, ON PROLONGED REPEATED EXPOSURE, PERIPHERAL NEUROPATHY, A PROGRESSIVE DISORDER OF THE NERVOUS SYSTEM, WHICH WITH SUFFICIENT EXPOSURE HAS A POTENTIAL OF BECOMING IRREVERSIBLE.

CARCINOGENICITY DATA: NO HUMAN INFORMATION IS AVAILABLE.

REPRODUCTIVE EFFECTS: NO HUMAN INFORMATION IS AVAILABLE.

TERATOGENIC EFFECTS: TOLUENE IS A DEVELOPMENTAL TOXICITY HAZARD, BASED ON INFORMATION OBTAINED FROM ANIMAL STUDIES. FETOTOXICITY (REDUCED FETAL WEIGHT), BEHAVIOURAL EFFECTS (EFFECTS ON LEARNING AND MEMORY) AND HEARING LOSS (IN MALES) HAVE BEEN OBSERVED IN THE OFFSPRING OF RATS EXPOSED BY INHALATION TO 1200 OR 1800 ppm OF TOLUENE.

MUTAGENIC EFFECTS: NO HUMAN INFORMATION IS AVAILABLE.

SYNERGISTIC EFFECTS: NO HUMAN INFORMATION IS AVAILABLE.

Emergency And First Aid Procedures

EYES: FLUSH WITH FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN: REMOVE CONTAMINATED CLOTHING IMMEDIATELY. WASH IMMEDIATELY WITH SOAP AND WATER.

INGESTION: CONSULT A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

INHALATION: REMOVE VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN IF NECESSARY.

SECTION VI - REACTIVITY DATA

Stability	Stable / Unstable
	XX

Conditions To Avoid

AVOID SPARKS, EXCESSIVE HEAT AND OPEN FLAME SOURCES.

Incompatibility

NOT APPLICABLE

SECTION VI - REACTIVITY DATA (cont'd)**Hazardous Decomposition Products**

ADHESIVE MAY EMIT TOXIC FUMES AT DECOMPOSITION INCLUDING CHLORINE, HYDROGEN CHLORIDE, CARBON MONOXIDE AND CARBON DIOXIDE.

Hazardous Polymerization**May Occur****Will Not Occur**

XX

Conditions To Avoid

NOT APPLICABLE

SECTION VII - PREVENTATIVE MEASURES**Steps To Be Taken In Case Material Is Released Or Spilled**

ELIMINATE ALL SOURCES OF IGNITION. TURN OFF ALL ELECTRICAL MOTORS. DIKE LARGE SPILLS AND DUMP TO SALVAGE TANKS OR INCINERATOR. KEEP PEOPLE AWAY. COVER WITH ABSORBENT MATERIAL, i.e. SAND, CLAY OR VERMICULITE, AND SHOVEL INTO SUITABLE CONTAINERS WHICH CAN BE CLOSED TIGHTLY. INCINERATE UNDER CONTROLLED CONDITIONS. NOTIFY AUTHORITIES IN THE EVENT OF A MAJOR SPILL AS REQUIRED BY LOCAL LAWS. WEAR ADEQUATE RESPIRATORY PROTECTION.

Waste Disposal Method

CHEMICAL INCINERATION. DO NOT DISPOSE OF MATERIAL BY MEANS OF DRAIN OR SEWER SYSTEM. COMPLY WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION**Respiratory Protection (Specify Type)**

ORGANIC VAPOUR TYPE RESPIRATOR IF VENTILATION IS INADEQUATE. PLEASE REFER TO LOCAL SAFETY SUPPLY FOR APPROPRIATE TYPE.

Ventilation - Local Exhaust

USE WITH ADEQUATE VENTILATION - EXPLOSION PROOF TYPE RECOMMENDED

Ventilation - Mechanical (General)

MAINTAIN SOLVENT CONCENTRATION BELOW TLV

Protective Gloves

IMPERMEABLE PLASTIC OR RUBBER CHEMICAL RESISTANT GLOVES

Eye Protection

SAFETY GOGGLES, GLASSES OR FACE SHIELD

Other Protective Equipment

IMPERVIOUS CHEMICAL RESISTANT APRONS AND BOOTS; EYE BATH AND SAFETY SHOWER SHOULD BE AVAILABLE.

SECTION IX - SPECIAL PRECAUTIONS**Precautions To Be Taken In Handling And Storing**

EXTREMELY FLAMMABLE. VAPOURS MAY CAUSE FLASH FIRE. USE WITH ADEQUATE VENTILATION. AVOID PROLONGED BREATHING OF VAPOUR. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. KEEP VAPOUR CONCENTRATION BELOW TLV.

Other Precautions

KEEP AWAY FROM OPEN FLAME, SPARKS AND EXCESSIVE HEAT. PREVENT ACCUMULATION OF STATIC ELECTRICITY ON HANDLING EQUIPMENT. HARMFUL OR FATAL IF SWALLOWED. NOT TO BE TAKEN INTERNALLY.

SECTION X - DATE AND SOURCE OF INFORMATION

Date	Prepared by:	Revision No.
NOVEMBER 7, 2005	HELMITIN INC. LABORATORY (416) 239-3105	(TL) 1

HAZARDOUS INFORMATION FOR TRANSPORTATION OF DANGEROUS GOODS
INFORMATION DE DANGER DU TRANSPORT MARCHANDISES DANGEREUSES

In Case Of Emergency Call Collect: (613) 996-6666 Canutec
 En Cas D'Urgence Appelez A Frais Virés: (613) 996-6666 Canutec

Product	Shipping Name	Class	UN Code	Packing	Flash Point
Produit	Appelation	Classe	Numero	Groupe	Point D'Eclair
	Reglementaire		D'Identification		

4565	ADHESIVES	3	UN1133	II	<-18°C
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HAZARD GUIDE (ERG#) 128

WHMIS INFORMATIONINFORMATION SIMDUT

CLASS B, DIVISION 2 - FLAMMABLE LIQUID
 CLASS D, DIVISION 2, SUBDIVISION A - VERY TOXIC
 CLASS D, DIVISION 2, SUBDIVISION B - TOXIC, EYE AND SKIN IRRITANT