SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015

Date Issued : 06/17/2015
SDS No : XPPP1 Adhesion Promoter_EN
Date Revised : 03/22/2021
Revision No : 5

XPPP1 Adhesion Promoter

1. IDENTIFICATION

Product Name: XPPP1 Adhesion Promoter
Product Description: Adhesion promoter for plastic surfaces, vehicle refinishing product, automotive use only 3.78 L / 1 gal US
General Use: Adhesion promoter - Not for sale in Utah, Delaware, Maryland, District of Columbia and parts of California.
Product Stock/Code: XPPP1 / 400101
Chemical Family: Solvent based
Molecular Formula: Mixture

Manufacturer / Supplier

Dominion Sure Seal Ltd.
6175 Danville Road, Mississauga
Ontario, Canada L5T 2H7
Fax: 905-670-5174
www.dominionsureseal.com
Customer Service: 905-670-5411

Emergency Telephone Numbers (24 hour)

CANUTEC : (613) 996-6666
CHEMTREC : (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2012) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2015). This information may be different from the actual product label information for labels that are regulated by other agencies.

Health hazards:

Skin Irritation, Category 2
Specific Target Organ Toxicity (Single exposure), Category 3 (Narcotic Effects)
Specific Target Organ Toxicity (Repeated exposure), Category 2
Reproductive Toxicity, Category 2
Carcinogenicity, Category 2
Aspiration Hazard, Category 1

Physical hazards:

Flammable Liquids, Category 2

Label elements

Hazardous components for labelling:
toluene, xylene, mixed isomers and ethylbenzene

Flame

Exclamation mark

Health hazard

Signal Word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H373: May cause damage to hearing organs and central nervous system through prolonged or repeated exposure.
H361: Suspected of damaging the unborn child.
H351: Suspected of causing cancer.
H304: May be fatal if swallowed and enters airways.

Precautionary statement(s)

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating or lighting equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P264: Wash hands thoroughly after handling.
P260: Do not breathe mist, vapours or spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves and eye protection.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331: Do NOT induce vomiting.
P370+P378: In case of fire: Use dry chemical or foam to extinguish.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P233: Keep container tightly closed.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.

Hazards Not Otherwise Classified: No data available.

Emergency Overview

Immediate concerns: Highly flammable liquid and vapour. Aspiration hazard. This material may be harmful or fatal if swallowed. Harmful if inhaled. Possible risk of harm to the unborn child. Moderately irritating to the skin. Vapours may cause drowsiness and dizziness.

Comments: See sections 9 and 10 for more detailed information on physicochemical effects.

See section 11 for more detailed information on health effects.
See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.
Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2015 and OSHA Hazcom 2012 Hazard Communication labeling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS number
toluene	92 - 96	108-88-3
xylene, mixed isomers	2 - 4	1330-20-7
ethylbenzene	0.4 - 0.6	100-41-4

Comments: There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.
xylene, mixed isomers is a complex substance i.e. complex mixture of known or unknown composition.
ethylbenzene is a hazardous constituent that may be contained in the complex substance at 18 to 20% w/w.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Signs and Symptoms of Overexposure

Eye Contact: Mildly irritating to the eyes. Symptoms may include tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin Contact: Contact causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Ingestion: Substance may be harmful if swallowed. If swallowed, may be aspirated and cause lung damage. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Inhalation: High vapor or spray mist concentrations may be harmful if inhaled. May cause headaches and dizziness. High vapor concentrations may cause drowsiness.

Notes to Physician: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Additional Information: No data available.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Product can be ignited by static discharge.

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire).

Fire Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Sensitivity to Static Discharge: Product is sensitive to static discharge.

Sensitivity to Mechanical Impact: Product is not sensitive to mechanical impact.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Eliminate all ignition sources. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly.

Environmental Precautions

Water Spill: Do not flush to sewer.

Land Spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Special Protective Equipment: Clean up spills immediately, observing precautions in Protective Equipment section 8.

7. HANDLING AND STORAGE

General Procedures: Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Ensure thorough ventilation of stores and work areas.

Handling: Do not use in the presence of open flame or spark. Use only in a well ventilated area. Wear recommended personal protective equipment. Keep container closed when not in use. Avoid breathing vapours or mist. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

Storage: Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Keep container tightly closed and in a well-ventilated place. Store in a cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
	Occupational Exposure Limits			
Chemical Name	**Type**		**ppm**	**mg/m³**
toluene	**OSHA PEL**	**TWA**	200	--
		STEL	300	--
	ACGIH TLV	**TWA**	20	75
	NIOSH REL	**TWA**	100	375
		STEL	150	560
xylene, mixed isomers	**OSHA PEL**	**TWA**	100	435
	ACGIH TLV	**TWA**	100	434
		STEL	150	651
	NIOSH REL	**TWA**	100	435
		STEL	150	655
ethylbenzene	**OSHA PEL**	**TWA**	100	435
	ACGIH TLV	**TWA**	20	87
	NIOSH REL	**TWA**	100	435
		STEL	125	545

Engineering Controls: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

Skin Contact: Wear chemical resistant gloves.

Respiratory: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Protective Clothing: Wear protective clothing as necessary to prevent contact.

Work Hygienic Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Odor : Aromatic

Odor Threshold : No data available.

Appearance : Clear to slightly hazy liquid

Color : Colourless

pH : Not Applicable

% Volatiles : 96 to 97% w/w

Flash Point and Method : 4°C Setaflash Closed Cup

Flammable Limits : 1.1 to 7.1

Notes: Based on data for toluene

Autoignition Temperature : 480°C

Notes: Based on data for toluene

Vapor Pressure : 3.8 kPa (21 mm Hg) [toluene] at 20°C

Vapor Density : 3.1 (air = 1)

Boiling Point : 110°C (toluene)

Freezing Point : No data available.

Melting Point : No data available.

Solubility in Water : Practically insoluble

Evaporation Rate (n-butyl acetate = 1) : 2.24

Density : 0.86 - 0.87 g/ml at 20°C

Viscosity : < 10 cps

VOC Content : < 840 g/l, less exempt solvents [< 97% w/w]

Oxidizing Properties : None

Comments:

VOC Compliance Statement

Actual VOC:	< 840 g/l (7.0 lb/gal)
Regulatory VOC:	< 840 g/l (7.0 lb/gal), less exempt solvents
VOC Content:	97% w/w maximum
Density:	0.86 to 0.87 g/ml
Total Volatiles:	< 97 % w/w
Exempt Content:	0 % w/w; 0 % v/v

VOC Regulation: Automotive Refinish Coatings - Canada
Coating Category: Adhesion Promoter

The product VOC content meets the 840 g/l (7.0 lb/gal) limit for Adhesion Promoter. Canada compliant. Do not thin with solvents.

VOC Regulation: Automotive Refinish Coatings – parts of California
Title 7.1124.11 – Delaware (DE)
COMAR 26.11.19.23 – Maryland (MD)
Rule 20-718 – District of Columbia (DC)
Rule R307-354 – Utah (UT)
Coating Category: Adhesion Promoter
The product VOC content does <u>not</u> meet the 540 g/l (4.5 lb/gal) limit for Adhesion Promoter.

VOC Regulation: US EPA National VOC Emission Standards for Automobile Autorefinish Coatings
Coating Category: Specialty Coating (Adhesion Promoter)

The product VOC content meets the U.S. EPA 840 g/l (7.0 lb/gal) limit for Specialty Coating (Adhesion Promoter).

Restrictions on Sale:
Not for sale in Utah, Delaware, Maryland, District of Columbia and parts of California.
Check for compliance in your area before using.

10. STABILITY AND REACTIVITY

Reactive Hazard **:** No

Hazardous Polymerization: Not expected to occur.

Stability: Stable.

Conditions to Avoid: Keep away from flames and incompatible materials. Keep away from flames and any object that sparks.

Possibility of Hazardous Reactions: No data available.

Hazardous Decomposition Products: Carbon Monoxide and other toxic vapors.

Incompatible Materials: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	Oral LD_{50} mg/kg(rat)	Dermal LD_{50} mg/kg(rabbit)	Inhalation LC_{50} mg/l
toluene	7000 6400 5500	12,270	49.0(rat;4h) 30.0(mouse;2h) 19.9(mouse;7h)
xylene, mixed isomers	5400 5251(mouse) 5627(mouse)	12,180	6350 ppm (rat;4h) 6700 ppm (rat;4h)
ethylbenzene	5460 3500 5627(mouse)	17,800 15,354	17.2(rat;4h) 13,367 ppm (rat;2h)

Acute Toxicity - Dermal LD_{50}: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute Toxicity - Oral LD_{50}: Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute Toxicity - Inhalation LC_{50}: Based on available ingredient data, the classification criteria for Acute Toxicity - inhalation are not met for this mixture. The calculated ATE is >20 mg/l/4h (vapours) and >5 mg/l/4h (mists). High vapor concentrations may be harmful if inhaled. Excessive vapor concentrations are attainable. Saturated vapors can be encountered in confined spaces and/or under conditions of poor ventilation.

Notes: <1 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.
No additional toxicology information is available for this product itself.
(See Component Toxicity Information).
Primary Routes of Entry:
Eye contact. Inhalation. Skin contact. Ingestion.

Skin Irritation / Corrosion: Contains: toluene. Causes skin irritation. The mixture is classified as: Skin Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as skin irritant, category 2). Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Eye Irritation / Serious Eye Damage: Based on available data, the classification criteria for eye irritation are not

met for this mixture. Slightly irritating but does not injure eye tissue.

Respiratory / Skin Sensitizer: Based on available data, the classification criteria for respiratory sensitization are not met for this mixture (< 0.1% ingredients classified as a respiratory sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a respiratory sensitizer, sub-category 1B).
Based on available data, the classification criteria for skin sensitization are not met for this mixture (< 0.1% ingredients classified as a skin sensitizer, category 1 or sub-category 1A and < 1.0% ingredients classified as a skin sensitizer, sub-category 1B).

Germ Cell Mutagenicity: Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

Carcinogenicity

Chemical Name	NTP status	IARC status	OSHA status	Other
toluene	--	3	--	A4 (ACGIH)
xylene, mixed isomers	--	3	--	--
ethylbenzene	--	2B	--	A3 (ACGIH)

Notes: ethylbenzene is listed as Group 2B (possibly carcinogenic to humans) by IARC. The mixture is classified as: Carcinogenicity, category 2 based on ingredient data using the applicable cut-off/concentration limits (≥ 0.1% ingredients classified as a Carcinogen, category 2).

Reproductive Toxicity: The mixture is classified as: Reproductive Toxicity, category 2 based on ingredient data using the applicable cut-off/concentration limits (≥ 0.1% ingredients classified as Reproductive Toxicity, category 2). May cause adverse reproductive effects. Possible risk of harm to the unborn child (Toluene).

Specific Target Organ Toxicity - Single Exposure: Contains: toluene. The mixture is classified as: Specific Target Organ Toxicity - Single Exposure, category 3, based on summation of ingredient data using the applicable cut-off/concentration limits (≥ 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3). Can cause central nervous system depression (including unconsciousness). High vapor concentrations may cause drowsiness. May cause headaches and dizziness.

Specific Target Organ Toxicity - Repeated Exposure: Contains: toluene, xylene, mixed isomers and ethylbenzene. The mixture is classified as: Specific Target Organ Toxicity - Repeated Exposure, category 2, based on ingredient data using the applicable cut-off/concentration limits (≥ 1.0% ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 2). Prolonged inhalation may be harmful. Chronic exposure to organic solvents such as Toluene, Xylene and Ethylbenzene have been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Aspiration Hazard: The mixture is classified as: Aspiration Hazard, category 1 based on ingredient data and viscosity data (≥ 10% ingredients classified as an Aspiration Hazard, category 1 and mixture viscosity ≤ 20.5 mm^2/s at 40 °C). If swallowed, may be aspirated and cause lung damage.

12. ECOLOGICAL INFORMATION

Environmental Data: No data available.

Ecotoxicological Information: No data available.

Bioaccumulation/Accumulation: No data available.

Distribution: No data available.

Aquatic Toxicity (Acute): No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

Product Disposal: Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : PAINT

Primary Hazard Class/Division: 3

UN/NA Number : 1263

Packing Group : II

Other Shipping Information:
For products with an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Vessel (IMO/IMDG)

Shipping Name : PAINT

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

Marine Pollutant : None

Note: For products with an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Canadian Transportation of Dangerous Goods Regulations

Shipping Name : PAINT

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

TDG Note:
For products with an inner packaging < 5.0 L, this component may be shipped as a Limited Quantity as per TDG Section 1.17.

15. REGULATORY INFORMATION

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 HEALTH HAZARDS: Aspiration Hazard, Carcinogenicity, Reproductive Toxicity, Skin Irritation, Target Organ Toxicity (Repeated exposure), Target Organ Toxicity (Single exposure)

311/312 Physical Hazards: Flammable Liquids

EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt.%	CAS number
toluene	92 - 96	108-88-3
xylene, mixed isomers	2 - 4	1330-20-7

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status:
This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical Name	Wt.%	RQ
toluene	92 - 96	1,000
xylene, mixed isomers	2 - 4	100
ethylbenzene	0.4 - 0.6	1,000

TSCA (The Toxic Substances Control Act)

TSCA Status:
All components are included or are otherwise exempt from inclusion on this inventory.

CAA 112(b) - Hazardous Air Pollutants

Chemical Name	Wt.%	CAS number
toluene	92 - 96	108-88-3
xylene, mixed isomers	2 - 4	1330-20-7
ethylbenzene	0.4 - 0.6	100-41-4

CAA 112(r) - List of Substances for Accidental Release Prevention:
This product contains no chemicals subject to CAA 112(r).

California Proposition 65:
WARNING: This product can expose you to chemicals including the chemical(s) listed below, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name	Wt.%	Listed
toluene	92 - 96	• Developmental Toxicity • Female Reproductive
ethylbenzene	0.4 - 0.6	• Cancer

OSHA Hazard Communication Standard (29 CFR 1910.1200):
OSHA Status: Hazardous Product (See Section 2 for details).
This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

CANADA

WHMIS Hazard Symbol and Classification

See Section 2 for details.

WHMIS Regulatory Status:
This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

WHMIS Classification:
WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):

Name	CAS No.	NPRI Part No.
toluene	108-88-3	1A, 5 (VOC)
xylene, mixed isomers	1330-20-7	1A, 5 (VOC)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):
All components are included or are otherwise exempt from inclusion on this inventory.

Comments VOC Content -- See section 9.

16. OTHER INFORMATION

Reason for Issue: The Safety Data Sheet was updated.

Approved By: Jim Gordon **Title:** R&D Chemist

Prepared By : Regulatory Compliance **Date Revised:** 03/22/2021

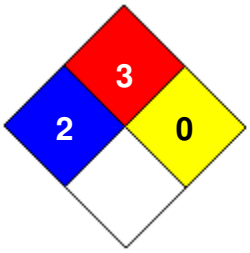
Information Contact: 905-670-5411

Revision Summary: This MSDS replaces the 03/22/2021 MSDS.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		G

NFPA CODES



NFPA 30 / 30B Storage Classification: Flammable Liquid IB

Manufacturer Supplemental Notes: None

Data Sources: Not Available

Additional SDS Information: N/AV Not Available
N/AP Not Applicable
ND Not yet determined
ACGIH American Conference of Governmental Industrial Hygienists
CAA The Clean Air Act
CCCR The Consumer Chemicals and Containers Regulations
CEPA The Canadian Environmental Protection Act
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
EPCRA The Emergency Planning and Community Right-To-Know Act
IARC International Agency for Research on Cancer
MSHA Mine Safety and Health Administration
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA The Occupational Safety and Health Administration
SARA The Superfund Amendments and Reauthorization Act
WHMIS Workplace Hazardous Materials Information System

General Statements: None

Comments: None

Manufacturer Disclaimer: The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for personal injury or property damage to vendees or users or third parties, caused by the

material. Such vendees or users assume all risks with the use of this material.