Safety Data Sheet

SECTION 1: Product and	company identification
Product name	: Malathion 57%
Use of the substance/mixture	: Insecticide
Product code	: 0680
Company	: Metropolitan Compounds 3343 N University Drive Hollywood, FL 33024 - USA T (855) 474-6781
Emergency number	: Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226 Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2B H320 Skin Sens. 1 H317 H340 Muta. 1B Carc. 1B H350 STOT SE 3 H335 STOT SE 3 H336 H304 Asp. Tox. 1

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

Hazard statements (GHS-US) : Flammable liquid and vapor Harmful if swallowed May be fatal if swallowed and enters airways Causes skin irritation May cause sal nergic skin reaction Causes eye irritation May cause drowsiness or dizziness May cause genetic defects May cause genetic defects May cause cancer Precautionary statements (GHS-US) : Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat, open flames, sparks No smoking Keep container tightly closed Ground/bond container and receiving equipment Use only non-sparking tools Take precautionary masures against static discharge Avoid breathing spray, mist Wash thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear eye protection, protective clothing, protective gloves If swallowed: Immediately call a doctor, a POISON CENTER If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with	Signal word (CHS US)	GHS02	GHS07	GHS08		
Do not handle until all safety precautions have been read and understood Keep away from heat, open flames, sparks No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical, lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Avoid breathing spray, mist Wash thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear eye protection, protective clothing, protective gloves If swallowed: Immediately call a doctor, a POISON CENTER	Signal word (GHS-US) Hazard statements (GHS-US)	Harmful if swa May be fatal if Causes skin ir May cause an Causes eye in May cause res May cause dro May cause ge	llowed swallowed and e ritation allergic skin reac ritation spiratory irritation owsiness or dizzir netic defects	tion		
water/shower If inhaled: Remove person to fresh air and keep comfortable for breathing If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pr and easy to do. Continue rinsing If exposed or concerned: Get medical advice/attention	Precautionary statements (GHS-US)	Do not handle Keep away fro Keep containe Ground/bond of Use explosion Use only non- Take precautio Avoid breathin Wash thoroug Do not eat, dri Use only outdo Contaminated Wear eye prot If swallowed: I If on skin (or h water/shower If inhaled: Ren If in eyes: Rins and easy to do	until all safety pro- m heat, open flar r tightly closed container and rec- proof electrical, I sparking tools onary measures a g spray, mist hly after handling nk or smoke when oors or in a well-v work clothing mu ection, protective mmediately call a air): Take off imm nove person to fre- se cautiously with b. Continue rinsing	ecautions have been read nes, sparks No smoking eiving equipment ighting equipment gainst static discharge n using this product entilated area st not be allowed out of th clothing, protective gloves doctor, a POISON CENT rediately all contaminated esh air and keep comfortal water for several minutes	e workplace S ER clothing. Rinse skin with ble for breathing	, if present

Call a doctor, a POISON CENTER if you feel unwell
Rinse mouth
Do NOT induce vomiting
If skin irritation or rash occurs: Get medical advice/attention
If eye irritation persists: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
Store in a well-ventilated place. Keep cool.
Store locked up
Dispose of contents/container to comply with local/regional/national/international regulations.

2.3. Other hazards No additional information available

2.4. Unknown acute toxicity (GHS US) Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion]	(CAS No) 121-75-5	40-70	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
SOLVESSO 100	(CAS No) 64742-95-6	15-40	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Trimethylbenzene	(CAS No) 25551-13-7	10-30	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6	10-30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
cumene	(CAS No) 98-82-8	1-5	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
xylene	(CAS No) 1330-20-7	0.1-2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Solvent naphtha (petroleum), heavy arom.	(CAS No) 64742-94-5	0.1-1	Asp. Tox. 1, H304

SECTION 4: First aid measu	ires				
4.1. Description of first aid mea	sures				
First-aid measures general	:	If you feel unwe Get medical ad		label where possible). IF exposed or co	oncerned:
First-aid measures after inhalation	:		lifficult, remove victim to fresh air a a POISON CENTER or doctor/phy	nd keep at rest in a position comfortabl sician if you feel unwell.	e for
First-aid measures after skin conta	ct :		liately all contaminated clothing an in irritation or rash occurs: Get me	d wash it before reuse. Wash with plen dical advice/attention.	ty of soap
First-aid measures after eye conta	ct :		y with water for several minutes. R g. If eye irritation persists: Get med	emove contact lenses, if present and e dical advice/attention.	asy to do.
First-aid measures after ingestion	:	Immediately ca	Il a poison center or doctor/physici	an. Do NOT induce vomiting.	
4.2. Most important symptoms	and effects	both acute and	delayed		
Symptoms/injuries	:		ell, seek medical advice. May caus peated exposure).	e cancer. May cause genetic defects (tl	nrough
Symptoms/injuries after inhalation	:			v cause drowsiness or dizziness. Irritation vous system depression. Shortness of b	
Symptoms/injuries after skin conta	ct :	Causes skin irri dryness or crac		reaction. Repeated exposure may caus	e skin
Date of issue: 5/3/2016	Revision dat	te: 04/01/2015	Version: 1.0	P GHS SDS	Page 2 of 8

Safety Data Sheet

Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Cramp

nps/uncontrolled muscular contractions. Vomiting. Feeling of weakness. Disturbances of consciousness.

4.3. Indication of any immediate medical attention and special treatment needed Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression.

SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.
5.2. Special hazards arising from th	
Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: Explosion risk in case of fire. May form flammable/explosive vapor-air mixture.
Reactivity	: Thermal decomposition may produce oxides of carbon and sulfur.
5.3. Advice for firefighters	
Firefighting instructions	Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, protection	ve equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personne	el
Protective equipment	: Protective goggles. Gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel. No naked flames or sparks.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Stop leak if safe to do so. Stop release. Ventilate area.
Avoid release to the environment. Pre 6.3. Methods and material for conta	vent entry to sewers and public waters. ainment and cleaning up
For containment	: Contain released substance, pump into suitable containers.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap solution.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Do not breathe vapors. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition - No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing immediately.
Hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	
Technical measures	 Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.
Incompatible products	: strong acids. Strong bases.
Incompatible materials	: Sources of ignition. Heat sources.
Storage area	: Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place.
Special rules on packaging	: Keep only in original container. meet the legal requirements.
opeoidi rules on packaging	. Reep only in orginal container. most the legal requirements.

SECTION 8: Exposure controls/personal protection

Safety Data Sheet

8.1. Control parameters

· //	,2-bis(etnoxycarbonyi)ethyl 0,0-dimethyl phosp	horodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)
ACGIH	ACGIH TWA (mg/m ³)	1 mg/m³
ACGIH	Remark (ACGIH)	Cholinesterase inhib
Trimethylbenzene	(25551-13-7)	
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	Remark (ACGIH)	CNS impair; asthma; hematologic eff
1,2,4-trimethylben	zene (95-63-6)	
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	ACGIH STEL (ppm)	25 ppm
cumene (98-82-8)		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Eye, skin, & URT irr; CNS impair
xylene (1330-20-7))	
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair

8.2. Exposure controls

Personal protective equipment

: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective goggles. Protective clothing.



9.1. Information on basic physical and chemical properties Physical state 1 Liquid Appearance 2 Clear, light yellow to golden liquid. Odor 2 strong characteristic Odor threshold 1 No data available pH 1 No data available Melting point 2 No data available Freezing point 1 No data available Forezing point 2 No data available Foldata evaluable 1 No data available Foldata evaluable 1 No data available Foldata evaluable No data available Explosive properties No data available Oxidizing properties No data available Vapor pressure No data available Relative evapity at 20 °C No data available Relative density No data available Relative density of density 1 No data available Solubility Mo data available	SECTION 9: Physical and chemical p	properties
Appearance:Cear, light yellow to golden liquid.Odor:strong characteristicOdor threshold:No data availablepH:No data availableMelting point:No data availableFreezing point:No data availableBoiling point:No data availableFlash point:No data availableExplosion limits:No data availableExplosion limits:No data availableExplosion properties:No data availableOxidizing properties:No data availableVapor pressure:No data availableRelative vapor density at 20 °C:No data availableSolubility:1.073 g/mlSolubility:No data availableLog Pow:No data availableLog Kow:No data availableAuto-ignition temperature:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availableDecomposition temperature:No data availableDecomposition temperature:No data availableDecomposition temperature:No data availableDecompositi		mical properties
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Log Pow:No data availableLog Kow:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data available	Specific gravity / density	: 1.073 g/ml
Log Kow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available	Solubility	: Emulsifies in water.
Auto-ignition temperature : No data available Decomposition temperature : No data available	Log Pow	: No data available
Decomposition temperature : No data available	Log Kow	: No data available
	Auto-ignition temperature	: No data available
Viscosity : No data available	Decomposition temperature	: No data available
	Viscosity	: No data available

Safety Data Sheet

Viscosity, kinematic	: < 20 cSt
Viscosity, dynamic	: No data available
VOC content	: <40 %

SECTION 10: Stability and reactivity

10.1. Reactivity Thermal decomposition may produce oxides of carbon and sulfur.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid No additional information available

10.5. Incompatible materials strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

malathion (ISO), 1,2-bis(ethoxycarbonyl)eth	yl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)
ATE CLP (oral)	500.000 mg/kg body weight
SOLVESSO 100 (64742-95-6)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 3160 mg/kg (Rabbit)
Trimethylbenzene (25551-13-7)	
LD50 oral rat	500 mg/kg
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)
xylene (1330-20-7)	
LC50 inhalation rat (ppm)	4550 ppmV/4h
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4550.000 ppmV/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
malathion (ISO), 1,2-bis(ethoxycarbonyl)eth	yl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5)
IARC group	3 - Not Classifiable
cumene (98-82-8)	
IARC group	2B - Possibly Carcinogenic to Humans
xylene (1330-20-7)	
IARC group	3 - Not Classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified

Safety Data Sheet

: May be fatal if swallowed and enters airways.
 EXPOSURE TO HIGH CONCENTRATIONS: May cause drowsiness or dizziness. Irritation of the respiratory tract. Headache. Nausea. Central nervous system depression. Shortness of breath.
: Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skir dryness or cracking.
: Causes eye irritation.
 May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Cramps/uncontrolled muscular contractions. Vomiting. Feeling of weakness. Disturbances of consciousness.

2.1. Toxicity	
SOLVESSO 100 (64742-95-6)	
LC50 fish 1	18 mg/l (Pisces)
EC50 Daphnia 1	21 mg/l (Daphnia sp.)
Threshold limit algae 1	1 - 10,Algae
1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7.72 mg/l (96 h; Pimephales promelas; Lethal)
LC50 fish 2	18 mg/l (48 h; Oryzias latipes)
Threshold limit algae 1	1 mg/l (72 h; Algae)
Threshold limit algae 2	2.356 mg/l (96 h; Algae)
2.2. Persistence and degradability	
SOLVESSO 100 (64742-95-6)	
Persistence and degradability	Readily biodegradable in water.
1,2,4-trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
Chemical oxygen demand (COD)	0.44 g O□/g substance
2.3. Bioaccumulative potential	
SOLVESSO 100 (64742-95-6)	
Log Pow	> 3
1,2,4-trimethylbenzene (95-63-6)	
BCF fish 1	31 - 275 (8 weeks; Cyprinus carpio)
Log Pow	3.63 - 4.09 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log$ Kow ≤ 5).

 SECTION 13: Disposal considerations

 13.1. Waste treatment methods

 Waste disposal recommendations
 : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description	: UN1993 Flammable liquids, n.o.s. (Petroleum Naphta, Malathion), 3, III
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid

Packing group (DOT) : III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

Safety Data Sheet

DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: B1,B52,IB3,T4,TP1,TP29
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A
Additional information	

Other information

When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150.

)R	
additional information available	
ansport by sea	
additional information available	
r transport	
additional information available	

SECTION 15: Regulatory information

:

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion]	CAS No 121-75-5	40-70
1,2,4-trimethylbenzene	CAS No 95-63-6	10-30
cumene	CAS No 98-82-8	1-5
xylene	CAS No 1330-20-7	0.1-2

malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,	O-dimethyl phosphorodithioate, [containing \leq 0.03 % isomalathion] (121-75-5)
Listed on SARA Section 313 (Specific toxic chemi	cal listings)
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
1,2,4-trimethylbenzene (95-63-6)	
Listed on SARA Section 313 (Specific toxic chemi	cal listings)
cumene (98-82-8)	
Listed on SARA Section 313 (Specific toxic chemi	cal listings)
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
xylene (1330-20-7)	
Listed on SARA Section 313 (Specific toxic chemi	cal listings)
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Safety Data Sheet

SECTION 16: Other information

Training	advice
riuning	aavioc

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects

NFPA fire hazard NFPA reactivity 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.