

Revision date: 24-May-2016 Version: 1.0 Page 1 of 12

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: FLECTOR (diclofenac epolamine) Patch

Trade Name: FLECTOR
Chemical Family: Not determined

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Non-steroidal, anti-inflammatory drug (NSAID) topical analgesic

Details of the Supplier of the Safety Data Sheet

Pfizer Inc
Pfizer Pharmaceuticals Group
235 East 42nd Street
New York, New York 10017

1-800-879-3477

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture GHS - Classification

Reproductive Toxicity: Category 1B

Label Elements

Signal Word: Danger

Hazard Statements: H360D - May damage the unborn child

Precautionary Statements: P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards

PZOZIO

Material Name: FLECTOR (diclofenac epolamine) Patch

Revision date: 24-May-2016 Version: 1.0

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

Page 2 of 12

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Diclofenac epolamine	119623-66-4	Not Listed	Acute Tox.3 (H301) Repr.1B (H360D) Aquatic Chronic 4 (H413)	1.3
Kaolin	1332-58-7	310-194-1	Not Listed	*
Sodium polyacrylate	9003-04-7	Not Listed	Not Listed	*
Titanium dioxide	13463-67-7	236-675-5	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS	GHS Classification	%
		List		
Butylene glycol	107-88-0	203-529-7	Not Listed	*
Carboxymethylcellulose sodium	9004-32-4	Not Listed	Not Listed	*
Dihydroxyaluminum aminoacetate	41354-48-7	Not Listed	Not Listed	*
Edetate disodium	139-33-3	205-358-3	Not Listed	*
Fragrance	NOT ASSIGNED	Not Listed	Not Listed	*
Gelatin	9000-70-8	232-554-6	Not Listed	*
Methylparaben	99-76-3	202-785-7	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	*
Povidone	9003-39-8	Not Listed	Not Listed	*
Propylparaben	94-13-3	202-307-7	Not Listed	*
Sorbitol solution	50-70-4	200-061-5	Not Listed	*
Tartaric acid	87-69-4	201-766-0	Not Listed	*
Water, purified	7732-18-5	231-791-2	Not Listed	*

Additional Information: * Pro

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Page 3 of 12

Material Name: FLECTOR (diclofenac epolamine) Patch

Revision date: 24-May-2016 Version: 1.0

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure: Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning /

Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

Additional Consideration for

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Refer to Section 12 - Ecological Information, for information on potential effects on the environment. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical drug product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Material Name: FLECTOR (diclofenac epolamine) Patch Page 4 of 12

Revision date: 24-May-2016 Version: 1.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Kaolin

ACGIH Threshold Limit Value (TWA) 2 mg/m³ Australia TWA 10 mg/m³ **Belgium OEL - TWA** 2 mg/m^3 **Bulgaria OEL - TWA** 3.0 mg/m³ 6.0 mg/m³ **Denmark OEL - TWA** 2 mg/m³ **Finland OEL - TWA** 2 mg/m^3 France OEL - TWA 10 mg/m³ Ireland OEL - TWAs 2 mg/m^3 **OSHA - Final PELS - TWAs:** 15 mg/m³ Poland OEL - TWA 10.0 mg/m³ Portugal OEL - TWA 2 mg/m^3 **Russia OEL - TWA** 8 mg/m³ Slovakia OEL - TWA 2 mg/m³ 10 mg/m³ Spain OEL - TWA 2 mg/m³ **Switzerland OEL -TWAs** 3 mg/m^3

Sodium polyacrylate

Germany (DFG) - MAK 0.05 mg/m³ neutralized, cross-linked

Titanium dioxide

ACGIH Threshold Limit Value (TWA) 10 mg/m³ **ACGIH OELs - Notice of Intended Changes** Listed **Australia TWA** 10 mg/m³ 5 mg/m^3 **Austria OEL - MAKs** 10 mg/m³ **Belgium OEL - TWA Bulgaria OEL - TWA** 10.0 mg/m³ **Denmark OEL - TWA** 6 mg/m³ Estonia OEL - TWA 5 mg/m^3 France OEL - TWA 10 mg/m³ **Greece OEL - TWA** 10 ma/m³ 5 mg/m³ **Ireland OEL - TWAs** 10 mg/m³ 4 mg/m^3 Latvia OEL - TWA 10 mg/m³ Lithuania OEL - TWA 5 mg/m³ **OSHA - Final PELS - TWAs:** 15 mg/m³ 10.0 mg/m³ **Poland OEL - TWA** 10 mg/m³ Portugal OEL - TWA Romania OEL - TWA 10 mg/m³ **Russia OEL - TWA** 10 mg/m³ Spain OEL - TWA 10 mg/m³ **Sweden OEL - TWAs** 5 mg/m³

3 mg/m³ 6 mg/m³

5 mg/m³

Switzerland OEL -TWAs

Vietnam OEL - TWAs

Material Name: FLECTOR (diclofenac epolamine) Patch

Revision date: 24-May-2016 Version: 1.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Diclofenac epolamine

Pfizer Occupational Exposure OEB 2 (control exposure to the range of 100ug/m³ to < 1000ug/m³)

Band (OEB):

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

Page 5 of 12

contamination levels below the exposure limits listed above in this section.

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal

Equipment: protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear

an appropriate respirator with a protection factor sufficient to control exposures to the bottom of

the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:PatchColor:No data available.Odor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
Partition Coefficient: (Method, pH, Endpoint, Value)

Diclofenac Sodium
Predicted Log P 4.51

Edetate disodium No data available

Gelatin

No data available **Methylparaben**

No data available

Povidone

No data available

Propylparaben

No data available

Tartaric acid

No data available

Water, purified

Material Name: FLECTOR (diclofenac epolamine) Patch Page 6 of 12

Revision date: 24-May-2016 Version: 1.0

9. PHYSICAL AND CHEMICAL PROPERTIES

No data available

Butylene glycol

No data available

Sorbitol solution

No data available

Carboxymethylcellulose sodium

No data available

Fragrance

No data available

Diclofenac epolamine

Predicted Log P 4.05

Sodium polyacrylate

No data available

Titanium dioxide

No data available

Kaolin

No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable at normal conditions

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: The information included in this section describes the potential hazards of various forms of the

active ingredient. The remaining information describes the potential hazards of the individual

ingredients.

Long Term: Animal studies indicate that this material may cause adverse effects on the the developing

fetus. Repeat-dose studies in animals have shown a potential to cause adverse effects on

blood, spleen, gastrointestinal system.

Material Name: FLECTOR (diclofenac epolamine) Patch

Revision date: 24-May-2016 Version: 1.0

11. TOXICOLOGICAL INFORMATION

Known Clinical Effects:

Clinical use has caused effects on the gastrointestinal system, including abdominal pain, nausea, vomiting, diarrhea, constipation, peptic ulcer, acid reflux, and gastrointestinal bleeding. Clinical use has resulted in liver effects. Symptoms may include jaundice, liver function test abnormalities, and hepatitis. Clinical use has caused effects on the nervous system, including drowsiness, anxiety, dizziness, visual disturbances. Serious allergic reactions, including anaphylaxis, have been reported. Clinical use of this drug has caused decreased red blood cell count (anemia), effects on blood forming organs. Clinical use has caused effects on the cardiovascular system, including heart attack (myocardial infarction), stroke. Other nonsteroidal anti-inflammatory drugs (NSAIDs) are known to impact delivery, late fetal development, and lactation.

Page 7 of 12

Acute Toxicity: (Species, Route, End Point, Dose)

Diclofenac Sodium

Rat Oral LD 50 53-77 mg/kg

Edetate disodium

Rat Oral LD50 2000-2200 mg/kg

Propylparaben

Mouse Oral LD 50 6332 mg/kg

Mouse Sub-tenon injection (eye) LD 50 200 mg/kg

Butylene glycol

Rat Oral LD50 22,800 mg/kg Mouse Oral LD50 12,980mg/kg Rabbit Dermal LD50 > 20,000mg/kg

Sorbitol solution

Rat Oral LD50 15,900 mg/kg Mouse Oral LD50 17,800mg/kg

Carboxymethylcellulose sodium

Mouse Oral LD50 > 27,000 mg/kg Rat Oral LD50 27,000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

Diclofenac epolamine

Rat Oral LD50 55-240 mg/kg

Titanium dioxide

Rat Oral LD50 > 7500 mg/kg Rat Subcutaneous LD50 50 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

Diclofenac Sodium

Skin Irritation Positive
Eye Irritation Positive

Page 8 of 12

Material Name: FLECTOR (diclofenac epolamine) Patch

Revision date: 24-May-2016 Version: 1.0

11. TOXICOLOGICAL INFORMATION

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Diclofenac Sodium

30 Day(s) Rat Oral 14 mg/kg LOAEL None identified 5 Week(s) Mouse Oral 9 mg/kg LOAEL Lungs, Spleen

26 Week(s) Rat Oral 50 mg/kg LOAEL Blood, Gastrointestinal system

Propylparaben

3 Week(s) Rat Oral 27.1 g/kg LOAEL Endocrine system

4 Week(s) Rat Oral 347.2 mg/kg LOAEL Male reproductive system

Carboxymethylcellulose sodium

13 Week(s) Rat Oral 227 g/kg LOAEL Liver, Kidney, Ureter, Bladder

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Diclofenac Sodium

Embryo / Fetal Development Rat Oral 24 mg/kg LOAEL Maternal toxicity, Fetotoxicity

Embryo / Fetal Development Rat 1 mg/kg LOAEL Developmental toxicity

Embryo / Fetal Development Rat No route specified 20 mg/kg/day NOEL Not Teratogenic Embryo / Fetal Development Rabbit No route specified 10 mg/kg/day NOEL Not Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Diclofenac Sodium

Bacterial Mutagenicity (Ames) Salmonella Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Diclofenac Sodium

Not specified Rat Oral 2 mg/kg/day NOEL Not carcinogenic

Carcinogen Status: See below

Povidone

IARC: Group 3 (Not Classifiable)

Titanium dioxide

IARC: Group 2B (Possibly Carcinogenic to Humans)

12. ECOLOGICAL INFORMATION

Environmental Overview: May have harmful effects on the aquatic environment. Releases to the environment should be

avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Page 9 of 12

Material Name: FLECTOR (diclofenac epolamine) Patch

Revision date: 24-May-2016 Version: 1.0

Diclofenac Sodium

Oncorhynchus mykiss (Rainbow Trout) EC-50 96 Hours 130.6 mg/L

Daphnia magna (Water Flea) EC50 48 Hours 68 mg/L

Skeletonema costatum (Marine Diatom) ErC50 48 Hours 42 mg/L Skeletonema costatum (Marine Diatom) EC-50 72 Hours 100 mg/L

Persistence and Degradability:

Biodegradation: (Method, Inoculum, Biodeg Study, Result, Endpoint, Duration, Classification)

Diclofenac Sodium

Ready 55% After 28 Day(s) Not Ready

Bio-accumulative Potential:

Partition Coefficient: (Method, pH, Endpoint, Value)

Diclofenac SodiumPredictedLog P4.51Diclofenac epolaminePredictedLog P4.05

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Butylene glycol

Material Name: FLECTOR (diclofenac epolamine) Patch

Page 10 of 12 Version: 1.0 Revision date: 24-May-2016

15. REGULATORY INFORMATION	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	203-529-7
Carboxymethylcellulose sodium	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Distance analysis	
Diclofenac epolamine	Not Listed
CERCLA/SARA 313 Emission reporting	Not Listed Not Listed
California Proposition 65 EU EINECS/ELINCS List	Not Listed
EU EINECS/ELINCS LIST	Not Listed
Dihydroxyaluminum aminoacetate	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Edetate disodium	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	205-358-3
Fragrance	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed Not Listed
EU EINECS/ELINCS List	Not Listed
EG EINEGG/EEINGG EIST	Not blotd
Gelatin	N. alexandre
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	232-554-6
Kaolin	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	310-194-1
Methylparaben	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed

Not Listed

California Proposition 65

Material Name: FLECTOR (diclofenac epolamine) Patch Page 11 of 12

Revision date: 24-May-2016 Version: 1.0

15. REGUL	ATORY INF	ORMATION
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Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

Present
202-785-7

Polysorbate 80

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Povidone

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Propylparaben

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not

Sodium polyacrylate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Sorbitol solution

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the obligations of Register:

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

Present

200-061-5

Tartaric acid

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

Titanium dioxide

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen initial date 9/2/11 airborne, unbound particles of

respirable size

Material Name: FLECTOR (diclofenac epolamine) Patch
Revision date: 24-May-2016

Page 12 of 12

Version: 1.0

15. REGULATORY INFORMATION

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

236-675-5

Water, purified

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the obligations of Register:

Not Listed

Not Listed

Not Listed

Not Listed

Present

EU EINECS/ELINCS List 231-791-2

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.1B; H360D - May damage the unborn child Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed

Hazardous to the aquatic environment, chronic toxicity-Cat.4; H413 - May cause long lasting harmful effects to aquatic life

Data Sources: Pfizer proprietary drug development information. Publicly available toxicity information.

Revision date: 24-May-2016

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
