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# IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Ketorolac Tromethamine Injection, USP (Hospira Inc.)

**Trade Name:** Not established Ketorolac trometamol Synonyms:

**Chemical Family:** Mixture

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

Intended Use: Pharmaceutical product used as non-steroidal, anti-inflammatory drug (nsaid)

Details of the Supplier of the Safety Data Sheet

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045

**Emergency telephone number:** 

1-800-879-3477

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

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

# 2. HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

**GHS - Classification** 

Reproductive Toxicity: Category 1A

Specific target organ systemic toxicity (repeated exposure): Category 2

**Label Elements** 

Signal Word: Danger

**Hazard Statements:** H360D - May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P314 - Get medical attention/advice if you feel unwell

P405 - Store locked up

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

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Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

**Note:**This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the

potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Ketorolac tromethamine	74103-07-4	Not Listed	Acute Tox.3 (H301) STOT RE 2 (H373) Repr.1A (H360D)	1.5-3.0
Ethanol	64-17-5	200-578-6	Flam. Liq. 2 (H225)	7 - 12
Hydrochloric Acid	7647-01-0	231-595-7	Press. Gas Skin Corr.1A (H314) Acute Tox.3 (H331)	**
Sodium hydroxide	1310-73-2	215-185-5	Skin Corr.1A (H314)	**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Water for injection	7732-18-5	231-791-2	Not Listed	*
Sodium chloride	7647-14-5	231-598-3	Not Listed	*

Additional Information: \* Proprietary

\*\* to adjust pH

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.

mixture mas 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.

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**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.

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:** Use carbon dioxide, dry chemical, or water spray.

Special Hazards Arising from the Substance or Mixture

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

**Products:** 

Fine particles (such as 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 / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

**Collecting:** 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 breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. 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 product used as non-steroidal, anti-inflammatory drug (nsaid)

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

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

#### **Ethanol**

ACGIH Threshold Limit Value (STEL)	1000 ppm
Australia TWA	1000 ppm
	1880 mg/m <sup>3</sup>
Austria OEL - MAKs	1000 ppm
D. I. T. O. C. TWA	1900 mg/m <sup>3</sup>
Belgium OEL - TWA	1000 ppm 1907 mg/m <sup>3</sup>
Bulgaria OEL - TWA	1000 mg/m <sup>3</sup>
Czech Republic OEL - TWA	1000 mg/m <sup>3</sup>
Denmark OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
Estonia OEL - TWA	500 ppm
	1000 mg/m <sup>3</sup>
Finland OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
France OEL - TWA	1000 ppm
Cormony TBCS 000 TWAs	1900 mg/m <sup>3</sup> 500 ppm
Germany - TRGS 900 - TWAs	960 mg/m <sup>3</sup>
Germany (DFG) - MAK	500 ppm
	960 mg/m <sup>3</sup>
Greece OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
Hungary OEL - TWA	1900 mg/m <sup>3</sup>
Latvia OEL - TWA	1000 mg/m <sup>3</sup>
Lithuania OEL - TWA	500 ppm
Netherlands OEL - TWA	1000 mg/m <sup>3</sup> 260 mg/m <sup>3</sup>
OSHA - Final PELS - TWAS:	1000 ppm
OSHA - I IIIdi F ELS - IWAS.	1900 mg/m <sup>3</sup>
Poland OEL - TWA	1900 mg/m <sup>3</sup>
Portugal OEL - TWA	1000 ppm
Romania OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
Russia OEL - TWA	1000 mg/m <sup>3</sup>
Slovakia OEL - TWA	500 ppm
Olevenia OFI TWA	960 mg/m <sup>3</sup>
Slovenia OEL - TWA	1000 ppm 1900 mg/m <sup>3</sup>
Sweden OEL - TWAs	500 ppm
	1000 mg/m <sup>3</sup>
Switzerland OEL -TWAs	500 ppm
	960 mg/m <sup>3</sup>
Vietnam OEL - TWAs	1000 mg/m <sup>3</sup>

**Hydrochloric Acid** 

ACGIH Ceiling Threshold Limit: 2 ppm

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O. L	AFOSORE CONTROLS / FERSONAL FROTECT	ION		
	Australia PEAK	5 ppm 7.5 mg/m <sup>3</sup>		
	Austria OEL - MAKs	5 ppm 8 mg/m <sup>3</sup>		
	Belgium OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Bulgaria OEL - TWA	5 ppm 8.0 mg/m <sup>3</sup>		
	Cyprus OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Czech Republic OEL - TWA	8 mg/m <sup>3</sup>		
	Estonia OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Germany - TRGS 900 - TWAs	2 ppm 3 mg/m <sup>3</sup>		
	Germany (DFG) - MAK	2 ppm 3.0 mg/m <sup>3</sup>		
	Greece OEL - TWA	5 ppm 7 mg/m <sup>3</sup>		
	Hungary OEL - TWA	8 mg/m <sup>3</sup>		
	Ireland OEL - TWAs	5 ppm 8 mg/m <sup>3</sup>		
	Italy OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Japan - OELs - Ceilings	2 ppm 3.0 mg/m <sup>3</sup>		
	Latvia OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Lithuania OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Luxembourg OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Malta OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Netherlands OEL - TWA	8 mg/m <sup>3</sup>		
	Poland OEL - TWA	5 mg/m <sup>3</sup>		
	Portugal OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Romania OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Slovakia OEL - TWA	5 ppm 8.0 mg/m <sup>3</sup>		
	Slovenia OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
	Spain OEL - TWA	5 ppm 7.6 mg/m <sup>3</sup>		
	Switzerland OEL -TWAs	2 ppm 3.0 mg/m <sup>3</sup>		
	Vietnam OEL - TWAs	5 mg/m <sup>3</sup>		
Sodium hydroxide				
	ACGIH Ceiling Threshold Limit:	2 mg/m <sup>3</sup>		
	Australia PEAK	2 mg/m <sup>3</sup>		

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Austria OEL - MAKs 2 mg/m<sup>3</sup> **Bulgaria OEL - TWA** 2.0 mg/m<sup>3</sup> Czech Republic OEL - TWA  $1 \text{ mg/m}^3$ **Estonia OEL - TWA**  $1 \text{ mg/m}^3$ 2 mg/m<sup>3</sup> France OEL - TWA  $2 \text{ mg/m}^3$ **Greece OEL - TWA**  $2 \text{ mg/m}^3$ **Hungary OEL - TWA** 2 mg/m<sup>3</sup> Japan - OELs - Ceilings Latvia OEL - TWA 0.5 ma/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 2 mg/m<sup>3</sup> Poland OEL - TWA 0.5 mg/m<sup>3</sup> Slovakia OEL - TWA  $2 \text{ mg/m}^3$ Slovenia OEL - TWA 2 mg/m<sup>3</sup>  $1 \text{ mg/m}^3$ **Sweden OEL - TWAs Switzerland OEL -TWAs** 2 mg/m<sup>3</sup>

Sodium chloride

Latvia OEL - TWA 5 mg/m³
Lithuania OEL - TWA 5 mg/m³

**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

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

**Personal Protective** 

Equipment:

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

protective equipment (PPE).

Hands: Impervious disposable gloves (e.g. Nitrile, etc.) (double recommended) if skin contact with drug

product is possible and for bulk processing operations. (Protective gloves must meet the

standards in accordance with EN374, ASTM F1001 or international equivalent.)

Eyes: Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the

standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

**Skin:** Impervious disposable protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations. (Protective clothing must meet the standards in

accordance with EN13982, ANSI 103 or international equivalent.)

Respiratory protection: Under normal conditions of use, if the applicable Occupational Exposure Limit (OEL) is

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL (e.g. particulate respirator with a full mask, P3 filter). (Respirators must meet the standards in accordance with EN136, EN143, ASTM F2704-10 or international equivalent.)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolutionColor:Clear to light yellowOdor:Alcohol SlightOdor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
Solubility:
Solubility:
Soluble: Water
PH:

No data available
Soluble: Water
6.9-7.9

Melting/Freezing Point (°C):

No data available

Boiling Point (°C):

No data available.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Sodium chloride No data available

Ketorolac tromethamine

No data available

**Ethanol** 

No data available
Water for injection
No data available
Hydrochloric Acid
No data available
Sodium hydroxide
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
No data available
No data available

Specific Gravity: 0.991

Viscosity: 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.):

Polymerization:

No data available
No data available
Will not occur

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as mists) may fuel fires/explosions. As a precautionary measure, keep

away from heat sources and electrostatic discharge.

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 the individual

ingredients.

Short Term: Accidental ingestion may cause effects similar to those seen in clinical use. Individuals

sensitive to this chemical or other materials in its chemical class may develop allergic

reactions.

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# 11. TOXICOLOGICAL INFORMATION

### **Known Clinical Effects:**

Other nonsteroidal anti-inflammatory drugs (NSAIDs) are known to impact delivery, late fetal development, and lactation. Ingestion of this material may cause effects similar to those seen in clinical use including serious gastrointestinal toxicity such as bleeding, ulceration, and perforation and kidney toxicity. Clinical use of this drug has caused headache, dizziness, blurred vision, ringing of the ears, skin rash, itching, swelling, and liver effects.

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

#### Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000 mg/kg

### Ketorolac tromethamine

Rat Oral LD50 189 mg/kg Mouse Oral LD50 293mg/kg

#### **Ethanol**

Mouse Oral LD50 3,450 g/m³
Rat Oral LD50 7,060mg/kg
Mouse Inhalation LC50 4h 39g/m³
Rat Inhalation LC50 10h 20,000ppm

#### Sodium hydroxide

Mouse IP LD50 40 mg/kg

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

### Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

### **Ethanol**

Eye Irritation Rabbit Severe

#### **Hydrochloric Acid**

Skin Irritation Severe Eye Irritation Severe

#### Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

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

### Ketorolac tromethamine

Reproductive & Fertility-Females Rat Oral16 mg/kg/day **NOAEL** Negative Reproductive & Fertility-Males Rat Oral 9 mg/kg/day NOAEL Negative Prenatal & Postnatal Development Rabbit Oral 3.6 mg/kg/day NOAEL Negative Prenatal & Postnatal Development Rat Oral 10 mg/kg/day NOAEL Negative

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# 11. TOXICOLOGICAL INFORMATION

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

### Ketorolac tromethamine

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative

Unscheduled DNA Synthesis Not specified Negative

In Vivo Micronucleus Mouse Negative

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

#### Ketorolac tromethamine

24 Month(s) Rat Oral 5 mg/kg/day NOAEL Not carcinogenic 18 Month(s) Mouse Oral 2 mg/kg/day NOAEL Not carcinogenic

Carcinogen Status: Carcinogenicity of the mixture has not been determined. Alcohol is listed as a carcinogen by

IARC. The IARC monograph examining the carcinogenic potential of ethanol examined only

alcoholic beverages. See below

**Ethanol** 

IARC: Group 1 (Carcinogenic to Humans)

**Hydrochloric Acid** 

IARC: Group 3 (Not Classifiable)

### 12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. Releases to

the environment should be avoided.

**Toxicity:** 

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

**Ethanol** 

Fingerling Trout NPDES LC50 24 Hours 11,200 mg/L

Oncorhynchus mykiss (Rainbow Trout) NPDES LC50 96 Hours 12,900 mg/L Pimephales promelas (Fathead Minnow) NPDES LC50 96 Hours 14,200 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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# 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

Ketorolac tromethamine

CERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not ListedStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

**Ethanol** 

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen 4/29/2011 in alcoholic beverages

developmental toxicity 10/1/1987 in alcoholic beverages

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

Australia (AICS):

Present

EU EINECS/ELINCS List

200-578-6

**Hydrochloric Acid** 

CERCLA/SARA 313 Emission reporting 1.0 %
CERCLA/SARA Hazardous Substances 5000 lb
and their Reportable Quantities: 2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous 500 lb

**TPQs** 

CERCLA/SARA - Section 302 Extremely Hazardous 5000 lb

**Substances EPCRA RQs** 

California Proposition 65 Not Listed

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# 15. REGULATORY INFORMATION

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Present
Schedule 5
Schedule 6
231-595-7

#### Sodium hydroxide

**CERCLA/SARA 313 Emission reporting** Not Listed 1000 lb **CERCLA/SARA Hazardous Substances** and their Reportable Quantities: 454 kg Not Listed **California Proposition 65** Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6 **EU EINECS/ELINCS List** 215-185-5

### Water for injection

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

231-791-2

### Sodium chloride

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

Present

231-598-3

# **16. OTHER INFORMATION**

### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed Acute toxicity, inhalation-Cat.3; H331 - Toxic if inhaled

Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage

Reproductive toxicity-Cat.1A; H360D - May damage the unborn child

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure Flammable liquids-Cat.2; H225 - Highly flammable liquid and vapor

**Data Sources:** Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

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Product Stewardship Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

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Prepared by:

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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**