



MATERIAL SAFETY DATA SHEET

Revision date: 18-Jul-2006

Version: 1.1

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

Pfizer Consumer Healthcare
Pfizer Inc
201 Tabor Road
Morris Plains, NJ 07950

Pfizer Ltd
Walton Oaks
Dorking Road
Tadworth
Surrey KT20 7NS, UK
+00 44 (0)1304 616161

Emergency telephone number:
1-973-385-2000
Hours of Operation - 24 Hours:
CHEMTREC (24 hours): 1-800-262-8200

Emergency telephone number:
ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: PURELL Instant Hand Sanitizer

Trade Name: PURELL
Chemical Family: Mixture
Intended Use: disinfectant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

| Ingredient | CAS Number | EU EINECS List | % |
|--------------------------|------------|----------------|----|
| Ethyl alcohol (ethanol) | 64-17-5 | 200-578-6 | 62 |
| Isopropyl alcohol | 67-63-0 | 200-661-7 | * |
| Glycerin, USP | 56-81-5 | 200-289-5 | * |
| 2-AMINO-2-METHYLPROPANOL | 124-68-5 | 204-709-8 | * |

| Ingredient | CAS Number | EU EINECS List | % |
|---------------------|--------------|----------------|---|
| Propylene glycol | 57-55-6 | 200-338-0 | * |
| Water | 7732-18-5 | 231-791-2 | * |
| Carbomer | 9007-16-3 | Not listed | * |
| Fragrance | NOT ASSIGNED | Not listed | * |
| Isopropyl myristate | 110-27-0 | 203-751-4 | * |
| Tocopheryl acetate | 7695-91-2 | 231-710-0 | * |

Additional Information: * Proprietary
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

3. HAZARDS IDENTIFICATION

Appearance: Clear liquid
Signal Word: DANGER

Statement of Hazard: Flammable liquid; May cause eye and respiratory tract irritation; This product contains ethanol which can cause liver changes, central nervous system effects, and birth defects in the developing fetus.
Eye Contact: May cause irritation based on components.
Skin Contact: Not expected to cause skin irritation



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Inhalation: Exposure to high concentrations may cause irritation, headache, drowsiness, and symptoms of alcohol intoxication. An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).

Ingestion: Ingestion of large quantities may cause gastrointestinal tract irritation, headache, dizziness, nausea, vomiting, diarrhea, dehydration, and symptoms of alcohol intoxication.

Potential Health Effects: Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis, and, if ingested during pregnancy, congenital malformations.

EU Indication of danger: Flammable
Irritant

EU Hazard Symbols:

Xi



EU Risk Phrases:

R10 - Flammable.
R36 - Irritating to eyes.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates 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.

4. 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

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

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

Fire / Explosion Hazards: Flammable liquid.

6. ACCIDENTAL RELEASE MEASURES

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

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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.

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

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.

Additional Information: This material becomes extremely slippery when wet.

7. HANDLING AND STORAGE

General Handling: Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin and clothing.

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ethyl alcohol (ethanol)

| | |
|-----------------------------------|------------------------------|
| OSHA - Final PELs - TWAs: | = 1000 ppm TWA |
| | = 1900 mg/m ³ TWA |
| ACGIH Threshold Limit Value (TWA) | = 1000 ppm TWA |
| Australia TWA | = 1000 ppm TWA |
| | = 1880 mg/m ³ TWA |

Propylene glycol

| | |
|---------------|-----------------------------|
| Australia TWA | = 10 mg/m ³ TWA |
| | = 150 ppm TWA |
| | = 474 mg/m ³ TWA |

Isopropyl alcohol

| | |
|------------------------------------|-------------------------------|
| OSHA - Final PELs - TWAs: | = 400 ppm TWA |
| | = 980 mg/m ³ TWA |
| ACGIH Threshold Limit Value (TWA) | = 200 ppm TWA |
| ACGIH Threshold Limit Value (STEL) | = 400 ppm STEL |
| Australia STEL | = 1230 mg/m ³ STEL |
| | = 500 ppm STEL |
| Australia TWA | = 400 ppm TWA |
| | = 983 mg/m ³ TWA |

Glycerin, USP

| | | |
|-----------------------------------|----------------------------|-------|
| OSHA - Final PELs - TWAs: | = 15 mg/m ³ TWA | total |
| | = 5 mg/m ³ TWA | |
| ACGIH Threshold Limit Value (TWA) | = 10 mg/m ³ TWA | |
| Australia TWA | = 10 mg/m ³ TWA | |

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

Personal Protective Equipment:

| | |
|---------------|---|
| Hands: | Wear impervious gloves if skin contact is possible. |
| Eyes: | Safety glasses or goggles |

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Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Respiratory protection: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

| | | | |
|-----------------------------------|-----------|---------------------------|---------|
| Physical State: | Liquid | Color: | Clear |
| Odor: | Citrus | Molecular Formula: | Mixture |
| Molecular Weight: | Mixture | | |
| pH: | 4.5 - 9.5 | | |
| Flash Point (Liquid) (°C): | 30.2 | | |

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Keep away from heat, spark, flames and all other sources of ignition.

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers.

1. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual ingredients.

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

Isopropyl myristate

Mouse Oral LD50 49,700 mg/kg
Rabbit Dermal LD50 5000 mg/kg

Ethyl alcohol (ethanol)

Mouse Oral LD50 3450 mg/kg
Rat Oral LD50 7060 mg/kg
Rat Inhalation LC50 10h 20,000 ppm

Isopropyl alcohol

Rat Oral LD50 > 2000 mg/kg
Mouse Oral LD50 3600 mg/kg
Rat Inhalation LC50-8h 16,000 ppm
Rabbit Dermal LD50 12800 mg/kg
Rat Inhalation LC50 30 mg/L

Glycerin, USP

Mouse Oral LD50 4090 mg/kg
Rat Oral LD50 12.6 g/kg
Rabbit Dermal LD50 > 10 g/kg
Rat Inhalation LC50 1hr > 570 mg/m³
Rat Dermal LD50 >21.9 g/kg

Propylene glycol

Mouse Oral LD50 22,000 mg/kg

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Rat Oral LD50 20,000 mg/kg

Rabbit Dermal LD50 20,800 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)

Ethyl alcohol (ethanol)

Eye Irritation Rabbit Severe

Isopropyl alcohol

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Mild

Glycerin, USP

Eye Irritation Rabbit Mild

Propylene glycol

Skin Irritation Rabbit Mild

Eye Irritation Rabbit Mild

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

Isopropyl alcohol

20 Week(s) Rat Inhalation 4000 ppm NOAEL Liver, Central nervous system

24 Week(s) Rat Inhalation 5000 ppm Kidney

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Isopropyl alcohol

Prenatal & Postnatal Development Rat Inhalation 7,000 ppm LOAEL Maternal toxicity, Fetotoxicity, Embryotoxicity

2 Generation Reproductive Toxicity Rat Oral 1000 mg/kg/day LOAEL Maternal Toxicity, Fetal mortality

Prenatal & Postnatal Development Rat Oral 1200 mg/kg/day NOAEL No effects at maximum dose

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

Isopropyl alcohol

Bacterial Mutagenicity (Ames) *Salmonella* Negative

Mammalian Cell Mutagenicity HGPRT Chinese Hamster Ovary (CHO) cells Negative

In Vitro Sister Chromatid Exchange Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Isopropyl alcohol

IARC: Group 3

OSHA: Present

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

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

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Ethyl alcohol (ethanol)

Rainbow Trout LC50/96h 12,900-15,300 mg/L

Glycerin, USP

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

Daphnia Magna (Water Flea) EC-50 24 Hours >500 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

This material is regulated for transport under DOT, ADR, IMDG, and IATA regulations.

Proper shipping name: Alcohols, n.o.s.
UN / ID No: UN 1987
Hazard class: 3
Packing group: III

If your commodity meets the definition of a limited quantity and is packaged for retail sale, it may be considered a consumer commodity and excepted from additional requirements as applicable. For small quantities, limited to inner packaging less than or equal to 5.0L (1.3 gal) and outer packaging less than or equal to 30 kg (66 lb.) gross weight, the following may be used:

IATA / ICAO

IATA Proper shipping name: Consumer Commodity
IATA UN / ID No: ID 8000
IATA Hazard Class: 9
IATA Packing Group: Not applicable

IMDG

IMDG Proper shipping name: Alcohols, n.o.s., Limited Quantity
IMDG UN / ID No: UN 1987
IMDG Hazard Class: 3
IMDG Packing Group: III
IMDG additional info: F.P. 30.2°C (86.36°F)

DOT

DOT Proper shipping name: Consumer Commodity
DOT Hazard Class: ORM-D
DOT Packing Group: Not applicable

15. REGULATORY INFORMATION

EU Symbol: Xi
EU Indication of danger: Flammable
Irritant

EU Risk Phrases:
R10 - Flammable.
R36 - Irritating to eyes.

EU Safety Phrases:

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S 2 - Keep out of the reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

OSHA Label:

DANGER

Flammable liquid; May cause eye and respiratory tract irritation; This product contains ethanol which can cause liver changes, central nervous system effects, and birth defects in the developing fetus.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class B, Division 2

Class D, Division 2, Subdivision A

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.



Ethyl alcohol (ethanol)

California Proposition 65

developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)

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

Present

Australia (AICS):

Present

EU EINECS List

200-578-6

Propylene glycol

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

Present

Australia (AICS):

Present

EU EINECS List

200-338-0

Water

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

Present

Australia (AICS):

Present

EU EINECS List

231-791-2

Isopropyl alcohol

CERCLA/SARA 313 Emission reporting

= 1.0 % de minimis concentration only if manufactured by the strong acid process, no supplier notification

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

Present

Australia (AICS):

Present

EU EINECS List

200-661-7

Glycerin, USP

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

Present

Australia (AICS):

Present

EU EINECS List

200-289-5

2-AMINO-2-METHYLPROPANOL

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

Present

Australia (AICS):

Present

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| | |
|----------------|-----------|
| EU EINECS List | 204-709-8 |
|----------------|-----------|

Isopropyl myristate

| | |
|---|-----------|
| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| EU EINECS List | 203-751-4 |

Tocopheryl acetate

| | |
|---|-----------|
| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| EU EINECS List | 231-710-0 |

16. OTHER INFORMATION

Prepared by:

Toxicology and Hazard Communication
Pfizer Global Environment, Health, and Safety

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.

End of Safety Data Sheet