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

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Material Name: Diphenoxylate Hydrochloride and Atropine Sulfate Liquid

Trade Name: Lomotil Chemical Family: Mixture

Intended Use: Pharmaceutical product used as antidiarrheal agent

2. HAZARDS IDENTIFICATION

Appearance: Yellow liquid Signal Word: WARNING

Statement of Hazard: Flammable liquid and vapor.

Additional Hazard Information:

Known Clinical Effects:

Short Term: May cause eye irritation (based on components) . Accidental ingestion may cause effects

similar to those seen in clinical use.

Long Term: Use of this drug is habit forming. Addiction may occur. Chronic ingestion of ethanol has been

associated with an increased incidence of cancer, liver cirrhosis, and congenital malformations. Ingestion of this material may cause effects similar to those seen in clinical use including

constipation, respiratory depression, numbness of extremities, state of intense good feeling (euphoria), dry mouth, anxiety, headache, changes in heart rate, drowsiness, sleepiness, dizziness, sedation, and gastrointestinal disturbance. Individuals sensitive to this material or

other materials in its chemical class may develop allergic reactions.

EU Indication of danger: Flammable

EU Risk Phrases:

R10 - Flammable.

Australian Hazard Classification

(NOHSC):

Hazardous Substance. Non-Dangerous Goods.

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2. HAZARDS IDENTIFICATION

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Ethyl alcohol (ethanol)	64-17-5	200-578-6	F;R11	15
Citric acid	77-92-9	201-069-1	Xi; R36	*
Diphenoxylate Hydrochloride	3810-80-8	223-287-6	Xn, R22	0.05
Atropine sulfate anhydrous	55-48-1	200-235-0	T+, R26/28	0.0005
Glycerin, USP	56-81-5	200-289-5	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
FD&C Yellow No. 6; (Sunset yellow)	2783-94-0	220-491-7	Not Listed	*
Sodium Phosphate	7632-05-5	231-558-5	Not Listed	*
Cherry flavor, artificial	NOT ASSIGNED	Not Listed	Not Listed	*
Water	7732-18-5	231-791-2	Not Listed	*
Sorbitol	6706-59-8	Not Listed	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

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.

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

Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

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

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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. May generate flammable vapors. Vapors are heavier than air and may travel

along surfaces to remote ignition sources and flash back.

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. 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.

7. HANDLING AND STORAGE

General Handling: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Flammable liquid

and vapor- keep away from ignition sources and clean up spills promptly. 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. Use appropriate personal protective equipment. Wash thoroughly after handling. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. 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.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Ethyl alcohol (ethanol)

ACGIH Threshold Limit Value (STEL) 1000 ppm 1000 ppm **Australia TWA** 1880 mg/m³ Austria OEL - MAKs 1000 ppm 1900 mg/m³ **Belgium OEL - TWA** 1000 ppm 1907 mg/m³ **Bulgaria OEL - TWA** 1000.0 mg/m³ 1000 mg/m³ Czech Republic OEL - TWA 1000 ppm **Denmark OEL - TWA** 1900 mg/m³

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8. EXPOSURE	CONTROLS	/ PERSONAL	PROTECTION
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XPOSURE CONTROLS / PERSONAL PRO	DTECTION
Estonia OEL - TWA	500 ppm
	1000 mg/m ³
Finland OEL - TWA	1000 ppm
	1900 mg/m ³
France OEL - TWA	1000 ppm
	1900 mg/m³
Germany - TRGS 900 - TWAs	500 ppm
	960 mg/m ³
Germany (DFG) - MAK	500 ppm
	960 mg/m ³
Greece OEL - TWA	1000 ppm
	1900 mg/m ³
Hungary OEL - TWA	1900 mg/m ³
Latvia OEL - TWA	1000 mg/m ³
Lithuania OEL - TWA	500 ppm
	1000 mg/m ³
Netherlands OEL - TWA	260 mg/m ³
OSHA - Final PELS - TWAs:	1000 ppm
D.L. LOEL TWA	1900 mg/m ³
Poland OEL - TWA	1900 mg/m ³
Portugal OEL - TWA	1000 ppm
Romania OEL - TWA	1000 ppm
Olevelde OEL TIMA	1900 mg/m ³
Slovakia OEL - TWA	500 ppm 960 mg/m³
Slovenia OEL - TWA	1000 ppm
Siovenia GEL - I WA	1900 ppm 1900 mg/m ³
Spain OEL - TWA	1900 mg/m
Spain OEL - TWA	1910 mg/m ³
Sweden OEL - TWAs	500 ppm
Oweden OLL - IWAS	1000 mg/m ³
	. 5 5 5g,
enoxylate Hydrochloride	
Pfizer OEL TWA-8 Hr:	25µg/m³
	= - r. g. · · ·

Diphe

Atropine sulfate anhydrous

Pfizer OEL TWA-8 Hr: $2.5\mu g/m^3$

Glycerin, USP

ACGIH Threshold Limit Value (TWA)	10 mg/m ³
ACGIH OELs - Notice of Intended Changes	Listed
Australia TWA	10 mg/m ³
Belgium OEL - TWA	10 mg/m ³
Czech Republic OEL - TWA	10 mg/m ³
Estonia OEL - TWA	10 mg/m ³
Finland OEL - TWA	20 mg/m ³
France OEL - TWA	10 mg/m ³
Germany (DFG) - MAK	50 mg/m ³
Greece OEL - TWA	10 mg/m ³
Ireland OEL - TWAs	10 mg/m ³
OSHA - Final PELS - TWAs:	15 mg/m ³
Poland OEL - TWA	10 mg/m ³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Portugal OEL - TWA 10 mg/m³
Spain OEL - TWA 10 mg/m³

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

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

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

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

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 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:LiquidColor:YellowMolecular Formula:MixtureMolecular Weight:Mixture

Boiling Point (°C): 78.5 based on lowest component boiling point: Ethanol

Vapor Density (g/ml): 1.59 (Ethanol)

Flash Point (Liquid) (°C): >38 (estimated)

Upper Explosive Limits (Liquid) (% by Vol.): 19% Lower Explosive Limits (Liquid) (% by Vol.): 3.3%

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

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

11. 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)

ATROPINE

Rat Oral LD 50 500 mg/kg

Rat Sub-tenon injection (eye) LD 50 280 mg/kg

Rat Intravenous LD 50 73 mg/kg Mouse Oral LD 50 75 mg/kg Mouse Intravenous LD 50 30 mg/kg

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11. TOXICOLOGICAL INFORMATION

Ethyl alcohol (ethanol)

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

Diphenoxylate Hydrochloride

Rat Oral LD50 221 mg/kg Mouse IP LD50 > 320 mg/kg

Atropine sulfate anhydrous

Rat Oral LD50 600 mg/kg
Rat Sub-tenon injection (eye) LD50 215 mg/kg
Rat Intravenous LD50 37 mg/kg
Mouse Oral 468 mg/kg

Citric acid

Rat Oral LD50 3000 mg/kg

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/m 3 Rat Dermal LD 50 >21.9 g/kg

FD&C Yellow No. 6; (Sunset yellow)

Rat Oral LD50 > 10,000 mg/kg Mouse Oral LD50 > 6,000 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 Skin Irritation Rabbit Mild

Citric acid

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Glycerin, USP

Eye Irritation Rabbit Mild

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

Diphenoxylate Hydrochloride

2 Week(s) Rat Oral 48 mg/kg/day LOEL Gastrointestinal System, Bladder 1 Month(s) Rat Oral 32 mg/kg/day LOAEL Central Nervous System

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

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11. TOXICOLOGICAL INFORMATION

ATROPINE

Embryo / Fetal Development Oral 50 mg/kg LOAEL Developmental toxicity, Maternal toxicity

Embryo / Fetal Development Rat Not Teratogenic Embryo / Fetal Development Dog Not Teratogenic

Diphenoxylate Hydrochloride

Reproductive & Fertility Rat Oral 20 mg/kg/day NOAEL No effects at maximum dose Embryo / Fetal Development Rabbit Oral 20 mg/kg/day NOAEL Not Teratogenic

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

ATROPINE

Bacterial Mutagenicity (Ames) Salmonella Negative

Diphenoxylate Hydrochloride

Cell Transformation Assay Rodent germ cell Negative

Carcinogen Status: See below

Ethyl alcohol (ethanol)

IARC: Group 1 (Carcinogenic to Humans)

OSHA: Listed

FD&C Yellow No. 6; (Sunset yellow)

IARC: Group 3 (Not Classifiable)

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

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

Ethyl alcohol (ethanol)

Oncorhynchus mykiss (Rainbow Trout) LC50/96h 12,900-15,300 mg/L

Glycerin, USP

Oncorhynchus mykiss (Rainbow Trout) LD50 96 Hours 50 mg/L Daphnia magna (Water Flea) EC50 24 Hours >500 mg/L

Aquatic Toxicity Comments: A greater than symbol (>) indicates that aquatic toxicity was not observed at the maximum

dose tested.

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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

EU Symbol: EU Indication of danger:None required
Flammable

EU Risk Phrases:

R10 - Flammable.

EU Safety Phrases:

S16 - Keep away from sources of ignition - No smoking.

OSHA Label:

WARNING

Flammable liquid and vapor.

Canada - WHMIS: Classifications

WHMIS hazard class: Class B, Division 3

Class D, Division 2, Subdivision B



Ethyl alcohol (ethanol)
California Proposition 65

carcinogen initial date 4/29/11 developmental toxicity initial date 10/1/87

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

Present

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15. REGULATORY INFORMATION

Australia (AICS): Present EU EINECS/ELINCS List 200-578-6

Citric acid

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

Australia (AICS):

Present

Present

201-069-1

FD&C Yellow No. 6; (Sunset yellow)

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

Australia (AICS):

EU EINECS/ELINCS List

Present
220-491-7

Sodium Phosphate

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 231-558-5

Water

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

Diphenoxylate Hydrochloride

U.S. Drug Enforcement Administration: Schedule II (Schedule V when in combination with other drugs)

Australia (AICS): Present EU EINECS/ELINCS List 223-287-6

Atropine sulfate anhydrous

U.S. Drug Enforcement Administration: Schedule IV Controlled Substance

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

Australia (AICS):

EU EINECS/ELINCS List

Present
200-235-0

Glycerin, USP

Inventory - United States TSCA - Sect. 8(b) Present
Australia (AICS): Present

REACH - Annex V - Exemptions from the obligations of Register:Present if not chemically modified, except they meet the criteria for classification as dangerous according to Directive 67/548/EEC,

except those only classified as flammable [R10], as a skin irritant [R38] or as an eye irritant [R36], except they are persistent, bioaccumulative, and toxic or very persistent and very

bioaccumulative in accordance with the criteria set out in Annex XIII, except they were identified in accordance with Article 59[1] at

least two years previously as substances giving rise to an

equivalent level of concern

EU EINECS/ELINCS List 200-289-5

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16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R11 - Highly flammable. R22 - Harmful if swallowed. R36 - Irritating to eyes.

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

Reasons for Revision: Updated Section 8 - Exposure Controls / Personal Protection.

Prepared by: Product Stewardship Hazard Communication

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
