

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: RENOLIT H EP 2

Other means of identification: No data available.

Recommended use of the chemical and restrictions on use

Recommended use: Lubricating grease

Recommended restrictions: Industrial use only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Fuchs Lubricants Co.
Address: 17050 Lathrop Avenue
Harvey, Illinois 60426
Telephone: 708-333-8900
Fax: 708-333-9180

Contact Person: EHS Department
E-mail: sds@fuchs.com

Emergency telephone number: 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Dermal) Category 5

Skin Corrosion/Irritation Category 3

Unknown toxicity - Health

Acute toxicity, oral 8.76 %

Acute toxicity, dermal 9.09 %

Acute toxicity, inhalation, vapor 16.78 %

Acute toxicity, inhalation, dust
or mist 16.56 %

Label Elements

Hazard Symbol: No symbol

Signal Word: Warning

Hazard Statement: H313: May be harmful in contact with skin.
H316: Causes mild skin irritation.

Precautionary Statements

Response: P332+P313: If skin irritation occurs: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	60 - 100%
Lithium soap	7620-77-1	3 - 7%
Asphalt, non-oxidized	8052-42-4	1 - 5%
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	0.5 - 5%
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	0.1 - 1%
Lithium hydroxide	1310-66-3	0.1 - 1%
Cumene	98-82-8	<0.1%
Ethylbenzene	100-41-4	<0.1%
Methyl isobutyl ketone	108-10-1	<0.1%
2-Propenoic acid, ethyl ester	140-88-5	<0.1%
Naphthalene	91-20-3	<0.1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation: Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact: Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.

For non-emergency personnel: No data available.

For emergency responders: No data available.

Methods and material for containment and cleaning up: Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.

Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Avoid contact with molten material.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated heavy naphthenic	VLE-PPT	5 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Asphalt, non-oxidized - Inhalable fraction. - as benzene solubles	VLE-PPT	0.5 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Distillates (petroleum), solvent-refined heavy paraffinic	VLE-PPT	5 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Lubricating oils (petroleum), hydrotreated spent	VLE-PPT	5 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering Controls	No data available.
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Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	No data available.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Grease
Color:	Amber
Odor:	Mild petroleum/solvent
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	171.11 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	0.95
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	> 22 mm ² /s (40 °C, estimated)

10. Stability and reactivity

Reactivity:	Not reactive during normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions. None under normal conditions.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.

**Hazardous Decomposition
Products:**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	None under normal conditions. Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	Eye contact is possible and should be avoided.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix (): > 5000 mg/kg
Dermal Product:	ATEmix (): 2000 - 5000 mg/kg
Inhalation Product:	No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	LC 50 (Rat): > 5,000 mg/l LC 50: > 5,000 mg/l
Asphalt, non-oxidized	LC 50 (Rat): > 94.4 mg/m ³ LC 50 (Rat): > 94.4 mg/m ³
Distillates (petroleum), solvent-refined heavy paraffinic	LC 50 (Rat): 22 mg/l
Lubricating oils (petroleum), hydrotreated spent	LC 50 (Rat): 2.2 mg/l
Lithium hydroxide	LC 50 (Rat): 6.15 mg/l
Cumene	LC 50 (Mouse): 25 mg/l LC 50 (Mouse): 10 mg/l LC 50 (Mouse): 10 mg/l LC 0 (Rat): 22.1 mg/l LC 0 (Rat): 17.6 mg/l LC 50 (Mouse): 10 mg/l LC 50 (Mouse): 25 mg/l LC 50 (Mouse): 24,700 mg/m ³
Ethylbenzene	LC 50 (Rat): 17.375 mg/l LC 50 (Rat): 55 mg/l LC 50 (Mouse): 35.5 mg/l
Methyl isobutyl ketone	LC 50 (Rat): > 8.2 - < 16.4 mg/l LC 50 (Rat): 11.6 mg/l LC 50 (Mouse): 74.2 mg/l LC 50 (Rat): 8.2 - 16.4 mg/l
2-Propenoic acid, ethyl ester	LC 50 (Rat): > 162 mg/l LC 50 (Rat): 9.137 mg/l LC 50 (Rat): 165 mg/l LC 100 (Guinea pig): 4.83 mg/l LC 50 (Rat): > 6.1 mg/l LC 50 (Rat): > 175 mg/l LC 50 (Rat): > 4.1 - < 8.2 mg/l LC 50 (Rat): 25.8 mg/l LC 50 (Rat): 7.4 mg/l LC 50 (Mouse): 16 mg/l LC 100 (Rabbit): 4.83 mg/l LC 50 (Rat): 9 mg/l LC 50 (Rat): 12.9 mg/l RD 50 (Mouse): 1.3 mg/l LC 50 (Rat): 5.8 mg/l

LC 50 (Rat): > 2 - < 3.1 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic Lithium soap	in vivo (Rabbit): Not irritant , 72 h Experimental result, Supporting study in vivo (Rabbit): Category 2 , 24 - 72 h Experimental result, Key study In vitro (Human, in vitro reconstituted epidermis model): Not irritant , 6 d Experimental result, Key study in vivo (Rabbit): Not irritant , 4 - 72 h Experimental result, Supporting study In vitro (Human, in vitro reconstituted epidermis model): Non-corrosive , 2 d Experimental result, Key study In vitro (Human, EPISKIN epidermis model): Not irritant , > 0.00 h Experimental result, Key study
Asphalt, non-oxidized	in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study Irritating.
Distillates (petroleum), solvent-refined heavy paraffinic Cumene	in vivo (Rabbit): Not irritant , 24 h Experimental result, Supporting study Irritating in vivo (Rabbit): Not irritant , 24 h Experimental result, Supporting study in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study
Methyl isobutyl ketone 2-Propenoic acid, ethyl ester	Highly irritating Strongly irritating. in vivo (Rabbit): Irritating , 24 - 72 h Experimental result, Key study
Naphthalene	Irritating in vivo (Rabbit): Not irritant , > 0 - 48 h Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit, 48 h: Not irritant EU Rabbit, 24 h: Not irritant EU Rabbit, 48 h: Not irritant EU Rabbit, 24 h: Not irritant EU
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Lithium soap	Rabbit, 7 d: Not irritant EU
	Rabbit, 2 - 7 d: Not irritant
	Rabbit, 7 d: Not irritant
	Rabbit: Not irritant EU
	Rabbit, 7 d: Not Classified EU
	Rabbit, 3 - 7 d: Not irritant
	Rabbit: Not irritant EU
	Rabbit, 1 - 14 d: Not Classified EU
	Rabbit, 72 h: Not irritant
	Rabbit, 48 h: Not Classified EU
	Rabbit, 24 - 72 h: Not Classified EU
	Rabbit, 24 h: Not Classified EU
Asphalt, non-oxidized	Rabbit, 7 d: Not irritant EU
	Rabbit, 1 h: Not irritant EU
	Rabbit, 72 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 1 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
	Rabbit, 72 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
Distillates (petroleum), solvent-refined heavy paraffinic	Rabbit, 24 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
Cumene	Irritating
	Rabbit, 72 h: Not irritant EU
	Rabbit, 24 h: Not irritant EU
	Rabbit, 24 - 72 h: Not irritant EU
	Rabbit, 48 h: Not irritant EU
Ethylbenzene	Highly irritating Exposure to 21.5 g/m ³ (5000 ppm) ethylbenzene for a few seconds gives intolerable irritation of nose, eyes, and throat
	Irritating Exposure to a concentration of 5000 ppm causes intolerable irritation of the eyes
	Irritating Concentration of 200 ppm causes irritation of eyes
	Rabbit, 7 d: Slightly irritating

Methyl isobutyl ketone	<p>Possibly Irritating</p> <p>Irritating Vapor was irritating to the eyes at 200 ppm.</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p> <p>Rabbit, 24 - 72 h: Not irritant CLP (1272/2008)</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p> <p>Rabbit, 24 - 72 h: Not irritant GHS Regulation EC No 1272/2008</p>
2-Propenoic acid, ethyl ester	<p>Highly irritating</p> <p>Strongly irritating.</p> <p>Rabbit, 24 - 72 h: Irritating EU</p> <p>Rabbit, 24 - 72 h: Irritating EU</p> <p>Rabbit, 24 h: Not irritant EU</p> <p>Rabbit, 24 - 72 h: Irritating EU</p>
Naphthalene	<p>Irritating At concentrations of 15 ppm in air.</p> <p>Guinea pig, 1 - 3 d: Not irritant EU</p> <p>Guinea pig, 1 - 3 d: Not irritant EU</p> <p>Guinea pig, 1 - 3 d: Not irritant EU</p> <p>Guinea pig, 24 h: Not irritant EU</p> <p>Guinea pig, 48 h: Not irritant EU</p>

Respiratory or Skin Sensitization

Product: May cause an allergic skin reaction.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: Upper Respiratory Tract irritation Eye irritation Skin irritation Central Nervous System impairment Cochlear impairment kidney damage dizziness headache Skin sensitization Gastro-Intestinal tract irritation Eye (cataract) Blood (hemolytic anemia)

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic LC 50 (Fish, 96 h): > 100 mg/l

Cumene LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 2.7 mg/l Mortality
LC 50 (Guppy (Poecilia reticulata), 96 h): 5.1 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 6.04 - 6.61 mg/l Mortality
LC 50 (Carp (Leuciscus idus melanotus), 48 h): 207 mg/l Mortality
LC 50 (Carp (Leuciscus idus melanotus), 48 h): 47 mg/l Mortality

Ethylbenzene LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 4.2 mg/l Mortality

2-Propenoic acid, ethyl ester LC 50 (Bony fish superclass (Osteichthyes), 72 h): 5 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.311 - 2.701 mg/l Mortality

Naphthalene LC 50 (Rainbow Trout, 96 h): 0.11 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic EC50 (Shrimp (Callinassa australiensis), 48 h): > 100 mg/l

Distillates (petroleum), solvent-refined heavy paraffinic EC50 (Daphnia): > 1,000 mg/l

Cumene EC50 (Water flea (Daphnia magna), 24 h): 1.4 mg/l Intoxication
EC50 (Water flea (Daphnia magna), 24 h): 1 - 1.97 mg/l Intoxication

	EC50 (Water flea (<i>Daphnia magna</i>), 48 h): 7.9 - 14.1 mg/l Intoxication
	EC50 (Brine shrimp (<i>Artemia</i> sp.), 48 h): 3.55 - 11.29 mg/l Intoxication
	EC50 (Brine shrimp (<i>Artemia</i> sp.), 48 h): 3.66 - 11.2 mg/l Intoxication
Ethylbenzene	LC 50 (Scud (<i>Gammarus pseudolimnaeus</i>), 96 h): 1.26 - 2.99 mg/l Mortality
2-Propenoic acid, ethyl ester	LC 50 (Brine shrimp (<i>Artemia salina</i>), 24 h): 12 mg/l Mortality
Naphthalene	LC 50 (<i>Daphnia</i> , 48 h): 2.16 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	EC50 (<i>Daphnia</i> , 14 d): 0.058 mg/l
	EC50 (21 d): 0.054 mg/l
	EC50 (2 d): > 10,000 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	EC50 (Algae (<i>Pseudokirchneriella subcapitata</i>), 72 h): > 100 mg/l
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Naphthalene	EC50 (Algae (<i>Pseudokirchneriella subcapitata</i>), 72 h): 0.4 mg/l
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Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Naphthalene	Striped bass (Morone saxatilis), Bioconcentration Factor (BCF): 245.5 (Flow through) Rainbow trout, donaldson trout (Oncorhynchus mykiss), Bioconcentration Factor (BCF): 500 (Flow through) Dragonfly (Somatochlora cingulata), Bioconcentration Factor (BCF): 1,128 (Static) Water flea (Daphnia magna), Bioconcentration Factor (BCF): 58 (Static) Rainbow trout, donaldson trout (Oncorhynchus mykiss), Bioconcentration Factor (BCF): 415 (Static)
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Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Cumene Log Kow: 3.66

Ethylbenzene Log Kow: 3.13 - 3.14 No Other, Supporting study

Methyl isobutyl ketone Log Kow: 1.31

Naphthalene Log Kow: 3.33 - 3.45 22 °C No Experimental result, Supporting study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Distillates (petroleum), hydrotreated heavy naphthenic No data available.

Lithium soap No data available.

Asphalt, non-oxidized No data available.

Distillates (petroleum), solvent-refined heavy paraffinic No data available.

Lubricating oils (petroleum), hydrotreated spent No data available.

Lithium hydroxide No data available.

Cumene No data available.

Ethylbenzene No data available.

Methyl isobutyl ketone No data available.

2-Propenoic acid, ethyl ester No data available.

Naphthalene No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions:

Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

Contaminated Packaging:

Empty containers should be taken to an approved waste handling site for

recycling or disposal.

14. Transport information

DOT

Not Regulated.

IATA

Not Regulated.

IMDG

Not Regulated.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not applicable

Chemical Identity	Yearly reporting threshold (Manufacture, Processing or Use):	Yearly reporting threshold (Emissions):
Cumene	5000 kg.	1000 kg.

Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances

Not applicable

Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)

none

Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)

Cumene	Threshold: 4600. kg
Ethylbenzene	Threshold: 4600. kg

Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)

Not applicable

Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)

Not applicable

16. Other information, including date of preparation or last revision

Issue Date:	01/13/2025
Revision Information:	01/09/2025: ARGHS_MX
Version #:	1.3
Further Information:	No data available.

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.