INTERNATIONAL PHARMACEUTICALS, INC.
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Your Wellness. Our Passion.

SAFETY DATA SHEET

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity	**SALICYLIC ACID 3% TOPICAL SOLUTION**
Company Name	International Pharmaceuticals, Inc.
Company Address	B. Suico St., Tingub, Mandaue City, Cebu 6014 Philippines
Telephone Number	+63 32 412-6900 / +63 32 260-6910
Intended Use	Keratolytic/ Antifungal

Section 2. HAZARD(S) IDENTIFICATION

GHS Classification

Flammable liquid	Category 2
Serious eye damage/ eye irritation	Category 2A
Acute toxicity (oral)	Category 4

GHS Label Element

Hazard Pictogram(s)

Signal Word(s): Danger

Hazard Statement(s):
Highly flammable liquid and vapor (H225)
Harmful if swallowed (H302)
Causes serious eye irritation (H319)

Precautionary Statement(s)

Prevention:
Keep out of reach of children. (P102)
Keep away from heat, hot surface, sparks, open flames and other ignition sources. – No smoking. (P210)
Keep container tightly closed. (P233)
Ground/bound container and receiving equipment. (P240)
Use explosion-proof electrical, ventilating, lightning equipment. (P241)
Use only non-sparking tools. (P242)
Take precautionary measures against static discharge. (P243)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Avoid release to the environment. (P273)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response:
IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. (P301+ P312)
Rinse mouth. (P330)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
IF eye irritation persists: Get medical advice/attention. (P337+P313)

Storage	Store locked up. (P405) Store in a well-ventilated place. Keep cool (P403+ P235)
Disposal	Collect spillage (P391) Dispose of contents/container to an approved waste disposal plant. (P501)

Other hazards None known

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity Mixture

Ingredients	CAS Number	EC Number	Concentration
Salicylic Acid	69-72-7	200-712-3	3.0%
Ethyl Alcohol	64-17-5	200-578-6	≥ 70%
* Other Non-Hazardous Ingredients	N/A	N/A	1.0-10.0%

In accordance with the paragraph (i) of Sec. 1910.1200, the specific chemical identity and/or exact percentage (concentration) of mixture has been withheld as a trade secret.
* Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (28 CFR Sec. 1910.1200)

Section 4. FIRST AID MEASURES

Necessary first-aid measures

Inhalation	Overexposure is most likely to occur dealing with large quantities and in an enclosed space with inadequate ventilation. Remove to fresh air. Allow patient to rest in a well-ventilated area. Seek medical attention.
Skin Contact	If irritation occurs, rinse irritated area with water. If irritation persists, get medical attention.
Eye Contact	Check for and remove any contact lenses._Rinse immediately with clean water for at least 15 minutes. Seek medical attention.
Ingestion	Do not induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Wash mouth with water, seek medical advice. Never give anything by mouth to an unconscious individual.

Most important symptoms / effects, both acute and delayed No information available.

Note(s) to physician Treat symptomatically.

Section 5. FIRE FIGHTING MEASURES

Suitable extinguishing media Use dry chemical powder, carbon dioxide or foam. Alcohol resistant foam is the preferred firefighting medium however, if it is not available, normal foam can be used. Try to contain spills, minimize spillage entering drains or water courses.

Unsuitable extinguishing media	High volume water jet
Specific hazards arising from the chemical	This product is classified as flammable. There is a moderate risk of an explosion if commercial quantities are involved in a fire. Fire Fighters should take care and prepare appropriate precautions. Water spray may be used to cool drums involved in a fire, reducing the chances of an explosion. Keep away from heat and sources of ignition.
Hazardous combustion products	Carbon monoxide and/or carbon dioxide, hydrocarbons
Special protective actions for fire-fighters	Wear full firefighting clothing, including self-containing breathing apparatus (SCBA).
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Non-emergency personnel	Wear appropriate Personal Protective Equipment (i.e. goggles, gloves.) before cleaning any spill or leaks. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal.
Emergency responders	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Deny entry to all unprotected personnel and unauthorized personnel. Maximize ventilation (open doors and windows). If there is a significant chance that vapors or mists are likely to build up in the clean-up area, use a respirator. Usually, no respirator is necessary when using this product.
Environmental precautions	Keep spills and cleaning runoffs out of nearby sewers and open bodies of water.
Methods and materials for containment and cleaning up	Take precautions to prevent entry into waterways, sewers, surface drainage systems, basements or confined areas. Stop leak if without risk. Absorb with dry earth or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dam to stop material from spreading into drains or waterways. Avoid using sawdust or other combustible materials. Collect material using non-sparking tools and place in a suitable, properly labeled container for recovery or disposal according to local regulations.

Section 7. HANDLING AND STORAGE

Precautions for safe handling	Keep exposure to the product to a minimum and minimize the quantities kept in work areas. Check 'Exposure controls and Personal Protection' of this SDS for details of personal protective measures. Avoid contact or contamination of product with incompatible materials listed under 'Stability and

Reactivity'

Conditions for safe storage — Store in a cool, well-ventilated place and make sure that surrounding electrical devices and switches are suitable. Check containers periodically for leaks. Containers should be kept close in order to minimize contamination and possible evaporation.

Materials to avoid — Incompatible with oxidizing agents (e.g., hypochlorites, peroxides), acids (sulfuric acid), strong alkalis (e.g., hydroxides), heat and ignition sources.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

If a component is disclosed in Section 3. (Composition/Information on Ingredients) but does not appear in the table below, an occupational exposure limit or recorded limit is not available for the component.

Chemical Name	Exposure Limits	
	OSHA [A]	NIOSH [B]
Ethyl Alcohol	• PEL-TWA: 1000 ppm (1900mg/m^3)	• REL-TWA: 1000 ppm (1900mg/m^3)

[A] Occupational Safety and Health Administration (OSHA)
[B] The National Institute of Occupational Safety and Health (NIOSH)

Appropriate engineering controls — Do not inhale vapors. Use in well ventilated areas. In poorly ventilated areas, mechanical non-sparking, explosion proof extraction ventilation is recommended. Flammable/ explosive vapors may accumulate in poorly ventilated areas. Vapors are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapor levels below the recommended exposure standard.

Individual protection measures

Eye / face protection — Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is possible.

Hand protection — Not required for the normal use of this product. Wear gloves when working with large quantities. The glove material has to be impermeable and resistant to the product such as nitrile rubber, neoprene gloves, butyl rubber or natural rubber gloves.

Skin / body protection — Not required for the normal use of this product. Use protective clothing (lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Respiratory protection — Not required for the normal use of this product. 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.

Thermal hazards — Any electrical equipment should be non-sparking. Any equipment capable of building an electrostatic charge should be electrically grounded.

Hygiene measures	General industrial hygiene practice.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Colorless, clear, liquid without floccules which dissolves upon shaking
Odor	Alcoholic
Odor threshold	No data available.
pH	2.83
Melting point / freezing point	-117°C (for Ethanol)
Initial boiling point and boiling range	78°C (for Ethanol)
Flash point	13°C (for Ethanol)
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper / lower flammability or explosive limits	Upper explosion limit 19% (V) (for Ethanol) Lower explosion limit 3.4% (V) (for Ethanol)
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	0.8461
Solubility(ies)	Soluble in water.
Partition coefficient (n-octanol / water)	No data available.
Auto-ignition temperature	422°C (for Ethanol)
Decomposition temperature	No data available.
Viscosity	No data available.

Section 10. STABILITY AND REACTIVITY

Reactivity	Stable under recommended storage conditions.
Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Ignition sources, static discharge, shock or vibration, heat, flames and sparks. Extreme temperatures, direct sunlight and incompatible materials.
Incompatible materials	Incompatible with oxidizing agents (e.g., hypochlorites, peroxides), acids (sulfuric acid), strong alkalis (e.g., hydroxides), heat and ignition sources.
Hazardous decomposition products	Carbon dioxide, carbon monoxide and smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement and unconsciousness followed by coma and death.

Section 11. TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.

Information of the likely routes of exposure Inhalation, eye contact, skin contact, ingestion

Potential health effects

Inhalation	Health injuries are not known or expected under normal use.
Skin contact	Can cause skin irritation. May cause allergic skin reaction.
Ingestion	Harmful if swallowed.
Eye contact	Not an expected route of exposure; however, direct contact can cause serious eye irritation.

Experience with human exposure

Inhalation	Symptoms are not known or data is not available.
Skin contact	Available data indicates that this product is not harmful. It should present no hazards in normal use.
Ingestion	Significant oral exposure is considered to be unlikely. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased. No data or health effects associated with long term ingestion.
Eye contact	This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. If exposure is brief, symptoms should disappear once exposure has ceased. No data or health effects associated with long term eye exposure.

Acute toxicity

Product	Oral toxicity	No data available.
	Inhalation toxicity	No data available.
	Dermal toxicity	No data available.
Ingredient(s)	• **Salicylic Acid**	
	Inhalation toxicity	LC_{50} (rat): 0.9 mg/L
	Exposure time	1 hour
	Dermal toxicity	LD_{50} (rat): > 2,000 mg/kg
	Oral toxicity	LD_{50} (rat): 891 mg/kg
	• **Ethyl Alcohol**	
	Oral toxicity	LD50: 3450 mg/kg (mouse) LD50: 7060 mg/kg (rat)
	Inhalation toxicity	LC50: 20,000 ppm/ 10 hr (rat)

Skin corrosion / irritation

Product	No data available.
Ingredient(s)	No data available.

Serious eye damage / irritation

Product	No data available.
Ingredient(s)	• **Salicylic Acid** Causes serious eye irritation • **Ethyl Alcohol** Causes serious eye irritation.

Respiratory or skin sensitization

Product	No data available.	
Ingredient(s)	• **Salicylic Acid**	
	Method	Local lymph node assay (LLNA)

Test organism Mouse
Result Not sensitizing

Method Local lymph node assay (LLNA)
Test organism Human
Test material 2% active solution
Result Not sensitizing

- **Ethyl Alcohol**
  No data available.

Germ cell mutagenicity

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  In vitro and in vivo tests did not reveal any genotoxic potential.
- **Ethyl Alcohol**
  No data available.

Carcinogenicity

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  No data available.
- **Ethyl Alcohol**
  No data available.

Reproductive toxicity

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Maternal toxicity: NOEL: 80 mg/kg/day
  Route: Ingestion
  Test organism: Rat

  Fatal toxicity: NOEL: 80 mg/kg/day
  Route: Ingestion
  Test organism: Rat
- **Ethyl Alcohol**
  No data available.

STOT-single exposure

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  No data available.
- **Ethyl Alcohol**
  No data available.

STOT-repeated exposure

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Method: Repeated dose toxicity
  Test organism: Rat
  Exposure time: 28 days
  NOEL: 237 mg/kg/day
- **Ethyl Alcohol**
  No data available.

Aspiration hazard

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  No data available.

- **Ethyl Alcohol**
  No data available.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental effects: Harmful to aquatic life.

Toxicity to fish

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Species: *Pimephales promelas*
  Exposure time: 96 hours
  LC_{50}: 1,370 – 2,160 mg/L
- **Ethyl Alcohol**
  LC50/ 96 hr Oncorhynchus mykiss (rainbow trout) >10,000 mg/L
  LC50/ 96 hr Pimephales promelas (fathead minnow) >13,400 mg/L

Toxicity to daphnia and other aquatic invertebrates

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Test organism: Daphnia
  Species: *Daphnia magna*
  Exposure time: 24 hours
  Test material: non-neutralized product
  Result: EC_{50}: 180 mg/L

  Test organism: Invertebrates
  Species: *Daphnia magna*
  Exposure time: 21 days
  Result: NOEC: 10 mg/L
- **Ethyl Alcohol**
  No data available.

Toxicity to algae

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Test organism: Fresh water algae
  Species: *Scenedesmus subspicatus*
  Exposure time: 72 hours
  EC_{50}: > 100 mg/L
- **Ethyl Alcohol**
  Growth inhibition/ 96 hr chlorella vulgaris (fresh water algae) 1,000 mg/L

Persistence and degradability

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Method: Ultimate aerobic biodegradability
  Readily biodegradable
- **Ethyl Alcohol**
  Biodegradation is expected.

Bioaccumulative potential

Product: No data available.

Ingredient(s):

- **Salicylic Acid**
  Not potentially bioaccumulable

Method	Octanol/water partition coefficient
Result	2.21 to 2.26 (log POW)

- **Ethyl Alcohol**
  Bioaccumulation is unlikely.

Mobility in soil

Product: No data available.

Ingredient(s):
- **Salicylic Acid** — Mobile in soils
- **Ethyl Alcohol**
  No data available.

Other adverse effects

Product: No data available.

Ingredient(s):
- **Salicylic Acid**
  Expected behavior of the product
  Ultimate destination of the product: water
- **Ethyl Alcohol**
  Expected not to be an environmental hazard.

Section 13. DISPOSAL CONSIDERATIONS

Disposal Methods: The product should not be allowed to enter drains, water courses or the soil. Possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose in accordance with all local and national regulations.

Section 14. TRANSPORT INFORMATION

Transport labeling: The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.
Due to its raw material, ethanol, this product is flammable and may be classified as dangerous goods.

Environmental hazards:
Prevent contamination of drains and waterways.

Special precautions during transport:
Do not transport with chemicals of class; 1 (explosives), 2.1/2.3 (flammable/ toxic gases), 4.2 (spontaneously combustibles), 5.1 (oxidizing agents), 5.2 (organic peroxides), 6 (toxics), 7 (radioactive) and foodstuffs.

Land transport

UN Number	UN 1993
UN proper shipping name	Flammable liquid, n.o.s.
Transport hazard class(es)	3
Packing group	III

Environmental hazard	Not classified.

Sea transport

UN Number	UN 1993
UN proper shipping name	Flammable liquid, n.o.s.
Transport hazard class(es)	3
Packing group	III
Environmental hazard	Not classified.

Air transport

UN Number	UN 1993
UN proper shipping name	Flammable liquid, n.o.s.
Transport hazard class(es)	3
Packing group	III
Environmental hazard	Not classified.

Section 15. REGULATORY INFORMATION

The regulatory data in this section is not intended to be all-inclusive, only selected regulations are represented.

International Inventories

Country / Region	Inventory Name	On Inventory (Yes / No)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Act on the Registration and Evaluation of Chemicals (REACH)	No
Korea	Korea Existing Chemicals Inventory (KECI)	No
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes**" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "**No**" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s). Certain restrictions may apply.*

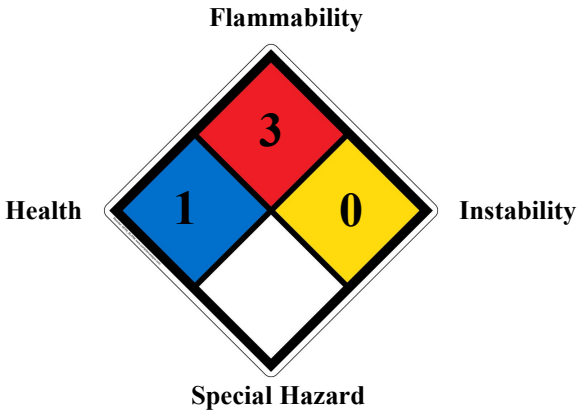
This SDS has been prepared in accordance to the UN Globally Harmonized System and the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is considered hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Section 16. OTHER INFORMATION

Further Information

Abbreviations:
MSDS – Material Safety Data Sheet
GHS – Globally Harmonized System of Classification
CAS – Chemistry Abstracts Service
EC – European Community Number
CFR – Code of Federal Regulations
OSHA – Occupational Safety and Health Administration
NIOSH – The National Institute of Occupational Safety and Health (NIOSH)
PEL – Permissible Exposure Limit
TWA - Time Weighted Average
PEL-TWA – Permissible Exposure Limit – 8-hour Time Weighted Average
CAPEL-TWA – California Permissible Exposure Limit – Time Weighted Average
IDLH – Immediately Dangerous to Life or Health
STOT – Specific Target Organ Toxicity
OECD – Organization for Economic Co-operation and Development
NOEL – No Observable Effect Level
NOEC – No Observable Effect Concentration
LOEC – Lowest Observed Effects Concentration
LD_{50} – median Lethal Dose
LC_{50} – Lethal Concentration required to kill 50% of the population
EC_{50} – half maximal Effective Concentration
ISO – International Organization for Standardization
UN Number – United Nations Number
NFPA – National Fire Protection Association
HMIS – Health Management Information Systems

NFPA



HMIS

0 = not significant
1 = slight
2 = moderate
3 = high
4 = extreme
* = chronic

Data	Publicly available information.
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RBN/CJS

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.