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SECTION 1. IDENTIFICATION

Substance name : Sodium PYRION 40% Aqueous Solution / Sodium PYRION 40% MP

Manufacturer or supplier's details

Company name of supplier : Janssen Pharmaceuticals, Inc.

Address : 1125 Trenton-Harbourton Rd
Titusville NJ 08560
US

Telephone : (609) 730-2000
E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

Emergency telephone number : CHEMTREC US: 1-800-424-9300
CHEMTREC International: +1 703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Biocidal product
Technical concentrate used in the manufacture of biocidal products.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 4
Acute toxicity (Dermal)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2A
Acute aquatic toxicity	: Category 1
Chronic aquatic toxicity	: Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

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Hazard statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Liquid

Hazardous components

Chemical name	CAS-No.	Concentration (%)
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	>= 30 - < 50

SECTION 4. FIRST AID MEASURES

General advice : Symptoms of poisoning may appear several hours later.

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| If inhaled | : Move person to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
Call a poison control center or doctor for treatment advice. |
| In case of skin contact | : Take off contaminated clothing.
Rinse skin immediately with plenty of water for 15-20 minutes.
Call a poison control center or doctor for treatment advice. |
| In case of eye contact | : Hold eye open and rinse slowly and gently with water for 15-20 minutes.
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Call a poison control center or doctor for treatment advice. |
| If swallowed | : Call a poison control center or doctor immediately for treatment advice.
Have person sip a glass of water if able to swallow.
Do not induce vomiting unless told to do so by a poison control center or doctor.
Do not give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : Irritating to skin.
Severe eye irritation |
| Notes to physician | : Treat symptomatically.

Probable mucosal damage may contraindicate the use of gastric lavage.
Convulsions, if persistent, may be controlled by careful intravenous use of short-acting barbiturates. Probable mucosal damage may contraindicate the use of gastric lavage. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---------------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : Water spray jet |
| Specific hazards during fire-fighting | : Heating can release hazardous gases.
Not combustible.
Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Carbon oxides
Nitrogen oxides (NOx) |
| Further information | : In the event of fire, cool tanks with water spray. |

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Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Firefighters must wear fire resistant personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Ensure adequate ventilation.

Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Dam up.
Prevent product from entering drains.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Shovel into suitable container for disposal.
Keep in suitable, closed containers for disposal.
Keep in properly labelled containers.
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No special protective measures against fire required.

Advice on safe handling : Handle and open container with care.
Avoid formation of aerosol.
Use personal protective equipment as required.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Store at room temperature in the original container.
Protect against light.
To avoid thermal decomposition, do not overheat.
Unsuitable materials for containers
Unlined steel
Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
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pyridine-2-thiol 1-oxide, sodium salt

3811-73-2

Engineering measures

: Engineering controls should be used as the primary means to control possible exposures. Use process enclosures, local exhaust ventilation or other engineering controls to keep exposure levels below recommended exposure limits.

Personal protective equipment

Respiratory protection

: Respirator with a vapour filter
ABEK
Use only respiratory protection that conforms to international/national standards.
Engineering controls should always be the primary method of controlling exposures.
If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.

Hand protection

Material

: Nitrile rubber

Material

: Polyethylene

Material

: PVC

Material

: Neoprene

Material

: Natural Rubber

Material

: butyl-rubber

Material

: Viton (R)

Remarks

: Impervious gloves Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection

: Tightly fitting safety goggles

Skin and body protection

: closed work clothing
If splashes are likely to occur, wear:
Impervious clothing

Protective measures

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice.

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Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: yellow, brown
Odour	: none
Odour Threshold	: No data available
pH	: 9.5 - 11.5, Concentration: ca. 400 g/l
Melting point/range	: Decomposes before melting.
Boiling point/boiling range	: 100 °C (1,013 hPa)
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: The product is not flammable. The product is not flammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: < 0.000046 Pa (25 °C)
Relative vapour density	: No data available
Relative density	: 1.22 (20 °C)
Density	: 1.22 g/cm ³ (20 °C)
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: completely miscible
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: The product is not flammable.

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Decomposition temperature	: 250 °C
Viscosity	
Viscosity, dynamic	: 7.8 mPa.s (20 °C) 3.9 mPa.s (40 °C)
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive (not expected to be explosive based on components)
Oxidizing properties	: Not oxidising (not expected to be oxidising based on components)
Conductivity	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Acids
Hazardous decomposition products	: Carbon monoxide Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	: LD50 (Rat): 1,500 mg/kg
Acute inhalation toxicity	: Acute toxicity estimate: 2.7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: LD50 (Rabbit): 1,800 mg/kg Method: Calculation method

Components:

pyridine-2-thiol 1-oxide, sodium salt

Acute oral toxicity	: LD50 (Rat): 1,208 mg/kg
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Acute inhalation toxicity : LC50 (Rat): 1.08 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): 720 mg/kg

Skin corrosion/irritation

Product:

Result: Skin irritation

Components:

pyridine-2-thiol 1-oxide, sodium salt

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: Eye irritation

Components:

pyridine-2-thiol 1-oxide, sodium salt

Species: Rabbit

Result: Eye irritation

Exposure time: 24 h

Assessment: Irritating to eyes.

Method: Draize Test

Respiratory or skin sensitisation

Product:

Method: Guinea pig maximization assay (GPMT) (OECD 406)

Result: Does not cause skin sensitisation.

Components:

pyridine-2-thiol 1-oxide, sodium salt

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro

: Test Type: in vitro assay

Species: Mutagenicity (Salmonella typhimurium - reverse

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mutation assay)
Metabolic activation: with and without metabolic activation
Result: negative

Components:**pyridine-2-thiol 1-oxide, sodium salt**

Genotoxicity in vitro : Test Type: Ames test
Species: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: Mutagenicity (micronucleus test)
Result: negative

Carcinogenicity**Components:****pyridine-2-thiol 1-oxide, sodium salt**

Species: Rat, (male and female)
Application Route: Oral
NOAEL: 0.5 mg/kg bw/day

Reproductive toxicity**Components:****pyridine-2-thiol 1-oxide, sodium salt**

Effects on fertility :
Species: Rat
Sex: male
Application Route: Oral
NOAEL: 1.4 mg/kg,
NOAEL F1: 1.4 mg/kg

Effects on foetal development : Species: Rat, female
Application Route: Oral
NOAEL Teratogenic effects 2 mg/kg

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

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Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****pyridine-2-thiol 1-oxide, sodium salt**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0066 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.022 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0.46 mg/l

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.08 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Skeletonema costatum (marine diatom)): 0.00064 mg/l
End point: Growth rate
Exposure time: 72 h
Test substance: Read-across – Zinc Pyrithione
Method: OPPTS 850.5400

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 10

Persistence and degradability**Product:**

Biodegradability : Result: Readily biodegradable.

Components:**pyridine-2-thiol 1-oxide, sodium salt**

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Components:**pyridine-2-thiol 1-oxide, sodium salt**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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Partition coefficient: n-octanol/water : log Pow: -2.64 (20 °C)
pH: 8.5 - 8.6

Mobility in soil

Product:

Stability in soil : Test substance: read-across
Remarks: Adsorbs on soil.

Other adverse effects

Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Triple rinse container promptly after emptying. Triple rinse as follows. Container disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pyridine-2-thiol 1-oxide, sodium salt)
Class	: 9
Packing group	: III
Labels	: 9

IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (pyridine-2-thiol 1-oxide, sodium salt)
Class	: 9
Packing group	: III
Labels	: 9
Packing instruction (cargo aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing instruction (EQ)	: E1
Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Remarks	: Special Provision A197: Environmentally hazardous substances, classified under UN 3077 or UN 3082, when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of the IATA DGR provided the packagings meet the general provisions of IATA DGR 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8., This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package <= 1mL for liquids or <= 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of IATA DGR §2.6.10 are met.

IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pyridine-2-thiol 1-oxide, sodium salt)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes
Remarks	: 2.10.2.7: Environmentally Hazardous Substances/Marine Pollutants, classified under UN 3077 or UN 3082, packaged in

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single or combination packagings containing a net quantity per single of inner packaging of 5L or less for liquids or having a net mass per single of inner packaging of 5kg or less for solids are not subject to the IMDG provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8., This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package \leq 1mL for liquids or \leq 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of ADR/RID/ADN/IMDG §3.5.1.4 are met.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**49 CFR**

UN/ID/NA number	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (pyridine-2-thiol 1-oxide, sodium salt)
Class	: 9
Packing group	: III
Labels	: 9
ERG Code	: 171
Marine pollutant	: no
Remarks	: 49 CFR 171.4 - Marine Pollutant Exception: Except when transporting aboard a vessel, the requirements of this subchapter do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft., This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package \leq 1mL for liquids or \leq 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of 49 CFR 173.4b are met.

SECTION 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

water	7732-18-5	50 - 70 %
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	30 - 50 %

New Jersey Right To Know

water	7732-18-5	50 - 70 %
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	30 - 50 %

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

- : This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
- : Warning
- : May be fatal if absorbed through the skin or inhaled.
- : Causes substantial but temporary eye irritation.
- : Harmful if swallowed.
- : Toxic to aquatic organisms.
- : Do not get into eyes, on skin, or on clothing.
- : Do not breath spray mist.

Inventories

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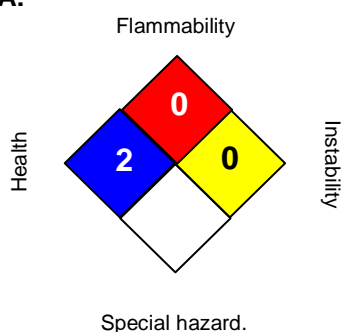
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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Use biocides safely. Always read the label and product information before use.
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Date and Number Formats

This document uses the following notation for printing dates and numbers:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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