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SECTION 1. IDENTIFICATION

Substance name : Tralopyril
4-bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile
ECONEA® Technical II

Substance No. : 122454-29-9

Reference number : JNJ-448071-AAA
R107894, CL-303268, AC303,268

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: 0800-424-9300**
CHEMTREC International: +1 703-527-3887

Recommended use of the chemical and restrictions on use

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

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 2

Acute toxicity (Inhalation) : Category 2

Acute toxicity (Dermal) : Category 3

Specific target organ toxicity - repeated exposure (Oral) : Category 1

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

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GHS Label element

Hazard pictograms



Signal word

: Danger

Hazard statements

: H300 + H330 Fatal if swallowed or if inhaled
H311 Toxic in contact with skin.
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing.
Response:
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Solid

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Tralopyril	122454-29-9	>= 90 - <= 100

SECTION 4. FIRST AID MEASURES

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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 | : No information available. |
| Notes to physician | : Treat symptomatically. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Water mist
Dry powder
Foam
Carbon dioxide (CO ₂)
Sand
Aqueous film forming foam (AFFF). |
| Unsuitable extinguishing media | : Water spray jet |
| Specific hazards during fire-fighting | : Risk of dust explosion.
Heating can release hazardous gases.
Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : No hazardous combustion products are known |
| Further information | : In the event of fire, cool tanks with water spray.
Avoid dust formation. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.
Firefighters must wear fire resistant personal protective |

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equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Avoid breathing dust.
Avoid dust formation.
Keep away from open flames, hot surfaces and sources of ignition.
- Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Keep in properly labelled containers.
Keep in suitable, closed containers for disposal.
Treat recovered material as described in the section "Disposal considerations".
Sweep up and shovel into suitable containers for disposal.
Pick up and arrange disposal without creating dust.
Prevent product from entering drains.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation. During processing, dust may form explosive mixture in air.
- Advice on safe handling : Ensure all equipment is electrically grounded before beginning transfer operations.
To avoid thermal decomposition, do not overheat.
Keep away from heat and sources of ignition.
Avoid formation of dust and aerosols.
Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight.
Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from heat and sources of ignition.
Keep locked up.
Keep away from food, drink and animal feedingstuffs.
Avoid dust formation.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
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		exposure)	concentration	
Tralopyril	122454-29-9	TWA	0.040 mg/m ³	J&J OEL/PBOEL HHC
		PBOEL-HHC	2	J&J OEL/PBOEL HHC
Further information: J&J has a hazard banding notation: PBOEL HHC. This substance is classified by J&J as being PBOEL HHC 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 : 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.
 Use only respiratory protection that conforms to international/national standards.
 Wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, P, R, or HE filter.

Hand protection

Material : Nitrile rubber
 Material : Natural Rubber
 Material : butyl-rubber
 Material : Neoprene
 Material : Polyethylene
 Material : PVC
 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 : Respirator with a full face mask

Skin and body protection : closed work clothing
 Long sleeved clothing

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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.
Wash thoroughly after handling.
When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: white, light brown
Odour	: sweet
Odour Threshold	: No data available
pH	: 5.16, saturated aqueous solution
Melting point/range	: 253.4 °C
Boiling point/boiling range	: > 400 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: Not highly flammable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: < 0.0000001 Pa (20 °C)
Relative vapour density	: No data available
Relative density	: 1.714 (20 °C)
Density	: 1.714 g/cm ³ (20 °C)

0.521 g/cm³
Pour density

0.647 g/cm³
Tap density

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Solubility(ies)
Water solubility : 0.17 mg/l (20 °C)

Solubility in other solvents : 300.5 g/l
(20 °C)
Solvent: Acetone

236.0 g/l
(20 °C)
Solvent: Ethylacetate

7.2 g/l
(20 °C)
Solvent: Heptane

109.1 g/l
(20 °C)
Solvent: Methanol

85.2 g/l
(20 °C)
Solvent: n-Octanol

5.6 g/l
(20 °C)
Solvent: Xylene

Partition coefficient: n-octanol/water : log Pow: 3.47

Auto-ignition temperature : No auto-ignition was observed up to the melting point.

Decomposition temperature : > 400 °C

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : 349.54 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : Risk of dust explosion.

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tions

Conditions to avoid : Heat, flames and sparks.
To avoid thermal decomposition, do not overheat.

Incompatible materials : No data available

Hazardous decomposition products : Carbon monoxide
Nitrogen oxides (NO_x)
HBr
HCl
HF

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): 28.7 mg/kg
Assessment: The component/mixture is highly toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 0.08 mg/l
Exposure time: 6 h

LC50 (Rat): < 0.51 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Guinea pig, female): 520 - 750 mg/kg
Assessment: The component/mixture is toxic after single contact with skin.

Skin corrosion/irritation

Product:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

Product:

Test Type: Buehler Test
Species: Guinea pig
Method: Guinea pig maximization assay (GPMT) (OECD 406)

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Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	: Test Type: Ames test Species: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Metabolic activation: with and without metabolic activation Result: negative
	: Test Type: in vitro assay Species: Chinese hamster ovary cells Result: negative
Genotoxicity in vivo	: Species: Mouse Exposure time: 48 h Method: Mutagenicity (micronucleus test) Result: negative

Carcinogenicity

Product:

Species: Rat
Application Route: Oral
Exposure time: 24 month(s)
NOAEL: No observed adverse effect level: 31 - 37 mg/kg body weight
Test substance: read-across

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Effects on fertility	: Test Type: Two-generation study Species: Rat Sex: female Application Route: Oral NOAEL: NOAEL F1: 6 mg/kg
Effects on foetal development	: Species: Rat, female Application Route: Oral

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NOAEL Teratogenic effects 10 mg/kg
NOAEL Maternal effects 10 mg/kg
Test period: 14d
Method: OECD Test Guideline 414
Species: Rabbit, female
Application Route: Oral
NOAEL Teratogenic effects > 30 mg/kg
NOAEL Maternal effects 5 mg/kg
Test period: 13d

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Product:

Exposure routes: Inhalation

Assessment: May cause damage to organs through prolonged or repeated exposure.

Exposure routes: Ingestion

Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Product:

Species: Rat

LOAEL: 5 mg/kg

Application Route: Oral

Exposure time: 90d

Target Organs: Central nervous system

Species: Rat

NOAEL: 300 mg/kg

Application Route: Dermal

Exposure time: 90d

Species: Rat

LOAEL: 0.02 mg/l

Application Route: inhalation (dust/mist/fume)

Exposure time: 6h/d 90d

Aspiration toxicity

Product:

No aspiration toxicity classification

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

- | | |
|--|---|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0013 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : LC50 (Daphnia magna (Water flea)): 0.0015 mg/l
Exposure time: 48 h

LC50 (Crassostrea virginica (eastern oyster)): 0.00066 mg/l
Exposure time: 96 h |
| Toxicity to algae | : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0.012 mg/l
Exposure time: 72 h

NOEC (Navicula pelliculosa (Freshwater diatom)): 0.00073 mg/l
Exposure time: 72 h |
| M-Factor (Acute aquatic toxicity) | : 1,000 |
| Toxicity to fish (Chronic toxicity) | : NOEC (Danio rerio (zebra fish)): 0.00017 mg/l
Exposure time: 33 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 0.0002 mg/l
Exposure time: 21 d |
| M-Factor (Chronic aquatic toxicity) | : 100 |
| Ecotoxicology Assessment | |
| Acute aquatic toxicity | : Very toxic to aquatic life. |
| Chronic aquatic toxicity | : Very toxic to aquatic life with long lasting effects. |

Persistence and degradability

Product:

- | | |
|------------------|--|
| Biodegradability | : Result: Not readily biodegradable.

Result: Biodegradable in sea water |
|------------------|--|

Bioaccumulative potential

Product:

- | | |
|-----------------|---|
| Bioaccumulation | : Bioconcentration factor (BCF): 3.2
Remarks: No bioaccumulation is to be expected (log Pow <= 4). |
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Mobility in soil

Product:

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Distribution among environmental compartments : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : This substance is not 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).

Additional ecological information : No data available

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, in accordance with Federal, State and Local regulations.
Container Disposal - Liner Bag: Non-refillable container. Do not reuse or refill this container. Completely empty liner into application equipment by shaking and tapping sides and bottom to loosen clinging particles. When completely empty, offer liner bag for recycling if available or dispose liner in a sanitary landfill, or by incineration if allowed by State and local authorities. If burned, stay out of smoke. If drum is contaminated and cannot be reused dispose of in the same manner.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

DOT

UN number	: 2811
Description of the goods	: Toxic solids, organic, n.o.s.
Class	: 6.1
Packing group	: II

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Labels : 6.1
Emergency Response : 154
Guidebook Number
Environmentally hazardous : no

IATA

UN number : 2811
Description of the goods : Toxic solid, organic, n.o.s.
(Tralopyril)
Class : 6.1
Packing group : II
Labels : 6.1
Packing instruction (CAO) : 676
Packing instruction (PAX and CAO) : 669
Packing instruction (LQ) : Y644
Environmentally hazardous : yes

IMDG

UN number : 2811
Description of the goods : TOXIC SOLID, ORGANIC, N.O.S.
(Tralopyril)
Class : 6.1
Packing group : II
Labels : 6.1
EmS Number 1 : F-A
EmS Number 2 : S-A
Marine pollutant : yes

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

Pollution category :
Ship type :

SECTION 15. REGULATORY INFORMATION

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

SARA 311/312 Hazards : No SARA Hazards

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

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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 12 (40 CFR 61).
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

Massachusetts Right To Know

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

Pennsylvania Right To Know

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New Jersey Right To Know

Tralopyril	122454-29-9	90 - 100 %
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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:

: Exempt from EU-REACH as it is Annex 1 approved under BPR. In the US, this is a registered pesticide under USEPA FIFRA.

REACH : Not in compliance with the inventory

: Tralopyril

CH INV : Not in compliance with the inventory

: Tralopyril

TSCA : Not On TSCA Inventory

: Tralopyril

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

: Tralopyril

AICS : Not in compliance with the inventory

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- : Tralopyril
- NZIoC : On the inventory, or in compliance with the inventory
- : Tralopyril
- ENCS : On the inventory, or in compliance with the inventory
- : Tralopyril
- ISHL : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- : Tralopyril
- PICCS : On the inventory, or in compliance with the inventory
- : Tralopyril
- IECSC : Not in compliance with the inventory
- : Tralopyril
- : 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:
- : Fatal if swallowed.
- : Harmful if inhaled or absorbed through the skin.
- : Causes moderate eye irritation.
- : Do not breath dust.
- : Avoid contact with skin, eyes or clothing.
- : Toxic to aquatic organisms.

Inventories

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

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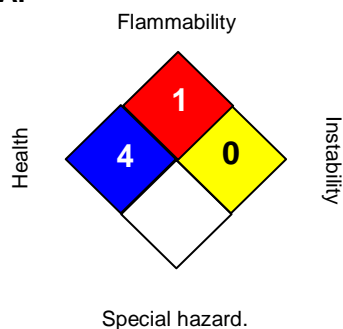
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

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Date and Number Formats

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

Date: Dec 31th, 2012 as 2012/12/31
Numbers: 123456,78 as 123,456.78

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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