



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Prentox Noxfish Fish Toxicant**

Synonyms

- 100209007; PMRA #: 14558

Product Description

- Clear amber-brown liquid which may contain particulate matter.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Liquid emulsifiable fish toxicant for control of fish in streams, ponds, lakes or reservoirs.

Restrictions on use

- KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Avoid release to the environment. Do not take internally. Use in well ventilated area. Avoid inhalation of vapors or fumes.

Details of the supplier of the safety data sheet

Manufacturer

- Wellmark International
100 Stone Road West, Suite 111
Guelph ON N1G 5L3
Canada

Emergency telephone number

Manufacturer

- 1-800-688-7378

Manufacturer (Transportation)

- 1-800-424-9300 - Chemtrec

Manufacturer (Transportation)

- 1-703-527-3887 - Chemtrec - outside the US, collect calls accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Aspiration 1
Eye Irritation 2A
Flammable Liquids 4
Skin Irritation 2
Carcinogenicity 2
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Acute Toxicity Oral 4
Acute Toxicity Inhalation 2

Label elements

OSHA HCS 2012

DANGER

- Hazard statements** • Causes serious eye irritation
 Causes skin irritation
 May be fatal if swallowed and enters airways
 Combustible liquid
 Fatal if inhaled
 May cause respiratory irritation
 May cause drowsiness or dizziness
 Suspected of causing cancer.
 Harmful if swallowed
 Very toxic to aquatic life with long lasting effects

Precautionary statements

- Prevention** • Wash thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear respiratory protection.
- Response** • IF ON SKIN: Wash with plenty of soap and water.
 Specific treatment, see supplemental first aid information.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 If eye irritation persists: Get medical advice/attention.
 In case of fire: Use appropriate media Water fog, foam, dry chemical or carbon dioxide (CO₂). for extinction.
 Immediately call a POISON CENTER or doctor/physician.
 IF exposed or concerned: Get medical advice/attention.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Keep container tightly closed.

Other hazards

OSHA HCS 2012

- This product is toxic to aquatic organisms. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Rotenone	CAS:83-79-4	5%
Cube Resins other than rotenone	NDA	7.5%
Solvent naphtha (petroleum) Heavy aromatic	CAS:64742-94-5	80.5%
Naphthalene	CAS:91-20-3	< 0.72%
Nonylphenol ethoxylate	CAS:9016-45-9	2.63% TO 3.23%
Benzoic acid	CAS:65-85-0	1%
Phenylsulfonate	CAS:70528-83-5	1.05% TO 1.65%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CONTROL center or doctor.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard - if swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Aspiration hazard, harmful if swallowed, fatal if inhaled, causes dizziness or drowsiness if inhaled, causes respiratory irritation, causes serious eye irritation, causes skin irritation, suspected of causing cancer. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
 - SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

- Unsuitable Extinguishing Media**
- Avoid heavy hose streams.

Firefighting Procedures

- Do not allow fire fighting water to escape into waterways or sewers.
LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.
LARGE FIRES: Move containers from fire area if you can do it without risk.
Stay upwind.
Ventilate closed spaces before entering.
Do not breathe gas/fumes/vapor/spray.
Keep unauthorized personnel away.

Special hazards arising from the substance or mixture**Unusual Fire and Explosion Hazards**

- Combustible liquid.
Containers may explode when heated.
Vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks) and may reach remote ignition sources causing a flashback fire danger.

Hazardous Combustion Products

- Combustible liquid - may produce carbon dioxide and/or carbon monoxide.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing fumes. Keep all sources of ignition away.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Avoid release into the environment. Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Take precautionary measures against static discharge. Turn off electric power to area.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up**Containment/Clean-up Measures**

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of spill for later disposal.
Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
Use appropriate Personal Protective Equipment (PPE)

Section 7 - Handling and Storage**Precautions for safe handling****Handling**

- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin or eyes.

Conditions for safe storage, including any incompatibilities**Storage**

- Store locked up. Store in a cool/low-temperature, well-ventilated dry place away from

heat and ignition sources. Keep from freezing. Keep container tightly closed. Avoid extreme temperatures.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame.

Other Information

- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • No data available.

Exposure Limits/Guidelines					
	Result	ACGIH	Canada Ontario	NIOSH	OSHA
Naphthalene (91-20-3)	STELs	Not established	15 ppm STEL	15 ppm STEL; 75 mg/m ³ STEL	Not established
	TWAs	10 ppm TWA	10 ppm TWA	10 ppm TWA; 50 mg/m ³ TWA	10 ppm TWA; 50 mg/m ³ TWA
Rotenone (83-79-4)	TWAs	5 mg/m ³ TWA (commercial)	5 mg/m ³ TWA (commercial)	5 mg/m ³ TWA	5 mg/m ³ TWA

Exposure Control Notations

Canada Ontario

- Naphthalene (91-20-3): **Skin:** (Danger of cutaneous absorption)

ACGIH

- Rotenone (83-79-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (commercial))
- Naphthalene (91-20-3): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans) | **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

Exposure Limits Supplemental

ACGIH

- Rotenone (83-79-4): **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)
- Naphthalene (91-20-3): **TLV Basis - Critical Effects:** (cataracts; upper respiratory tract irritation; hemolytic anemia)

Exposure controls

Engineering

Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- If handling without sufficient ventilation, wear a NIOSH approved respirator. See product label for specific respiratory protection instructions.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Wear chemical resistant gloves.

Skin/Body

- Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks required.

Environmental Exposure Controls

- This product is extremely toxic to fish. Keep out of lakes, streams or ponds except under use conditions. Follow best practice for site management and disposal of waste.

Other Information

- See product label for specific use PPE instructions.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Clear amber-brown liquid which may contain particulate matter.
Color	Amber-brown	Odor	Solvent type.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	4 (1% aqueous solution)
Specific Gravity/Relative Density	= 0.92 Water=1	Density	No data available
Water Solubility	Not soluble	Viscosity	< 100 Centipoise (cPs, cP) or mPas
Critical Temperature	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 61°C (141.8°F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity**Reactivity**

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excessive heat >110°F. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Keep away from fire.

Incompatible materials

- Strong oxidizing agents and strong acids.

Hazardous decomposition products

- Thermal decomposition may produce oxides of carbon.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Rotenone (5%)	83-79-4	Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 39.5 mg/kg; Ingestion/Oral-Rat, adult male LD50 • 102 mg/kg; Inhalation-Rat LC50 • 0.0212 mg/L 4 Hour(s); Skin-Rabbit LD50 • >5000 mg/kg; Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation 2; Acute Toxicity - Oral 4
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 2
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

- Fatal if inhaled. May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness or drowsiness.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- Causes skin irritation.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- Harmful if swallowed. Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary

edema.

Chronic (Delayed)

Mutagenic Effects

Carcinogenic Effects

- No data available
- Rotenone is not mutagenic.
- Naphthalene is listed as a suspected human carcinogen by NTP and IARC. No other component of this product present at 0.1% or greater is listed by IARC, OSHA or NTP.

Reproductive Effects

- Rotenone has been tested and does not cause birth defects.

Section 12 - Ecological Information

Toxicity

Components		
Rotenone (5%)	83-79-4	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.00194 mg/L [Acute] NOEC <i>Rainbow Trout</i> 0.00101 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC <i>Daphnia magna</i> 0.00125 mg/L [Chronic] 96 Hour(s) EC50 <i>Daphnia magna</i> 0.0037 mg/L [Acute]

Persistence and degradability

- Rotenone is not persistent in the environment and its low vapor pressure (6.9×10^{-10} torr) and Henry's Law constant (1.1×10^{-13} atm-m³ mol⁻¹) limit its volatility. If released to water, rotenone generally degrades quickly through abiotic (hydrolytic and photolytic) mechanisms.

Bioaccumulative potential

- Rotenone has a relatively low potential for bioconcentrating in aquatic organisms.

Mobility in Soil

- Rotenone is mobile to moderately mobile in soil and sediment with a half-life of a few days to several weeks or longer depending on water temperature.

Other adverse effects

Potential Environmental Effects

- Toxic to aquatic organisms.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Never place unused product down any indoor or outdoor drain.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions. Nonrefillable container.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN2902	Pesticides, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Marine Pollutant
IMO/IMDG	UN2902	Pesticide, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Marine Pollutant
IATA/ICAO	UN2902	Pesticide, liquid, toxic, n.o.s. (Rotenone)	6.1	II	Not Applicable

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

- The calculated 1-hour acute toxicity for inhalation LC50 = 1.7 mg/L.

DOT • Environmental Hazards: RQ (Naphthalene = 100 lb). Environmental Hazards: RQ (Benzoic acid = 5000 lb).

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, SARA Title III Section 313, Fire

FIFRA – Pesticide Labeling

CAUTION



POISON

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.
FLAMMABLE POISON

Hazards to Humans and Domestic Animals

PMRA Label: PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Poisonous if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. In case of contact, wash immediately with soap and water. Wash all contaminated clothing with soap and hot water before reuse. Avoid contamination of feed and foodstuffs. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes.

First Aid •

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. IF IN EYES: 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 apoisn control centre or doctor for treatment advice. Take container, label or product name and PCP Registration Number with you whenseeking medical attention.

TOXICOLOGICAL INFORMATION: Contains petroleum distillate - vomiting may cause aspiration pneumonia. Treat symptomatically.

Environmental Hazards • Toxic to aquatic organisms.

Inventory		
Component	CAS	TSCA
Benzoic acid	65-85-0	Yes
Naphthalene	91-20-3	Yes
Phenylsulfonate	70528-83-5	Yes
Nonylphenol ethoxylate	9016-45-9	Yes
Rotenone	83-79-4	No
Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Yes

United States

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Naphthalene	91-20-3	
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• Benzoic acid	65-85-0	5000 lb final RQ; 2270 kg final RQ
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Naphthalene	91-20-3	0.1 % de minimis concentration
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Naphthalene	91-20-3	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed

• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Naphthalene	91-20-3	waste number U165
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Naphthalene	91-20-3	
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• Naphthalene	91-20-3	waste number U165
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

• Naphthalene	91-20-3	
• Benzoic acid	65-85-0	Not Listed
• Nonylphenol ethoxylate	9016-45-9	Not Listed
• Solvent naphtha (petroleum) Heavy aromatic	64742-94-5	Not Listed
• Phenylsulfonate	70528-83-5	Not Listed
• Rotenone	83-79-4	Not Listed

Section 16 - Other Information

Revision Date • 04/March/2016

Last Revision Date • 04/March/2016

Preparation Date • 04/March/2016

Disclaimer/Statement of Liability •

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