

SAFETY DATA SHEET

Agral 90

Date of Issue: May 31, 2018

SECTION 1: IDENTIFICATION

Product name: Agral 90

Norac Concepts Inc.
P.O. Box 31097
Guelph, ON, N1H 8K1

Product use: Agricultural non-ionic surfactant

Registration number: 24725 Pest Control Product Act

Restriction on use: None known

Additional Product Information: 519-821-3633

In Case of Emergency, Call: 613-787-5620 All hours

SECTION 2: HAZARDS IDENTIFICATION

Hazard Statements:

Causes severe eye irritation

Precautionary Statements:

Prevention

Keep out of reach of children

Read label before using

Wash hands thoroughly after handling

Wear protective gloves, protective clothing, eye protection and face protection

Response

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a poison center or doctor for treatment advice

IF ON SKIN: Remove or take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation occurs get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor for treatment advice

Wash contaminated clothing before reuse.

Storage

Keep away from heat, sparks and sources of ignition

Disposal

Dispose of contents/container to comply with applicable regulations

Physical Hazards Not Otherwise Classified: None known

Health Hazards Not Otherwise Classified: None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	% (w/w)
Nonylphenoxy polyethoxy ethanol	68412-54-4	60 - 100
Isobutanol	78-83-1	7 - 13

Common Name: None

Synonyms: None

SECTION 4: FIRST-AID MEASURES

Inhalation: Move person to fresh air. Call a Poison Control Center or Doctor for further advice.

Skin contact: Remove contaminated clothing immediately. Flush skin with running water for a minimum of 15-20 minutes. If irritation persists obtain medical attention.

Eye contact: Hold eye open and rinse gently with running water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes. Call a poison control center or doctor for treatment advice.

Ingestion: 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.

Most Important Symptoms and Effects, Acute and Delayed:

If inhaled: Mists may cause respiratory irritation.

If on skin or in eyes: May cause severe eye irritation. May cause skin irritation.

If swallowed: May cause nausea and vomiting.

Indication of any immediate medical attention and special treatment needed: There is no specific antidote, treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: For large fires, apply aqueous film forming foam or water in the form of a fog. For small fires, use carbon dioxide or dry chemical.

Unsuitable Extinguishing media: Water stream may spread flames.

Specific Hazards arising from the substance or mixture: Contain fire-fighting water for disposal if contaminated with product.

Special Protective Equipment and Precautions for Fire-fighters: Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by dyking.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear personal protective equipment as described in Section 8.

Environmental Precautions: Do not allow product to enter sewers, ground water or any water course. Inform applicable government authority if release is reportable or could adversely affect the environment.

Methods and Materials for Containment and Cleaning Up: Wash with heavy duty detergent to reduce slip hazard. Absorb spilled material with suitable liquid binding material and place in suitable containers for disposal. Dispose of contaminated material as waste according to Section 13.

SECTION 7: HANDLING AND STORAGE

Precaution for Safe Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

Conditions for Safe Storage: Store in a cool and dry location away from oxidizing and reducing agents. Keep away from heat, sparks and ignition sources. Keep out of reach of children and pets.

Storage temperature: Do not allow product to freeze.

Ingredients with Workplace Control Parameters:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	CAS Number	Value/Form of Exposure	Permissible Concentration
Nonylphenoxy polyethoxy ethanol	68412-54-4	TLV	15 mg/m ³
Isobutanol	78-83-1	ACGIH TWA STEL	152 mg/m ³ 225 mg/m ³

Appropriate Engineering Controls: Provide local exhaust and/or adequate ventilation.

Individual Protection Measures:

Eye protection: Use chemical safety goggles.

Skin protection: Chemical-resistant gloves and protective clothing that is impervious under conditions of use.

Respiratory protection: If misting conditions exist, use NIOSH/MSHA approved respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid
Odour:	Mild sweet odour
Odour Threshold:	Not determined
pH:	6.5 to 7.5
Melting point/Freezing Point:	Not determined
Initial Boiling Point/Range:	>108°C
Flash Point:	>45°C TCC
Evaporation rate (ether=1):	Not determined
Flammability (Solid or gas):	Not applicable
Lower flammability or explosive limit:	1.8%
Upper flammability or explosive limit:	10.6%
Vapour pressure (mm Hg at 20°C):	10 mm Hg
Vapour density (air=1):	2.55
Specific gravity:	1.03 at 20°C
Solubility (water):	Miscible
Solubility (other):	No data
Partition coefficient (n-octanol/water):	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not reactive. Not sensitive to mechanical impact.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None expected.
Conditions to avoid:	Sources of extreme heat or ignition. Prolonged storage at temperatures above 40°C.
Incompatible materials:	Strong oxidizing and reducing agents. Strong acids.
Hazardous decomposition products:	May produce carbon oxides and irritating gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, skin, ingestion, and inhalation.

Acute Toxicity of Product:

Oral LD₅₀ (rat) = 2460 mg/Kg

Dermal LD₅₀ (rabbit) = 4240 mg/Kg

Inhalation LC₅₀ (rat) = 8000 ppm for 4 hrs

Delayed and Immediate Effects:

- Inhalation:** Inhalation of mists may cause respiratory tract irritation. May also cause coughing, sneezing and shortness of breath.
- Skin contact:** Prolonged or repeated exposure may cause skin irritation and dermatitis.
- Eye contact:** Direct contact may cause severe eye irritation and tissue damage.
- Ingestion:** May cause nausea, diarrhea and abdominal cramps.

Respiratory or skin sensitization: Not a sensitizer.

Aspiration Hazard: None known.

Chronic Effects: Inhalation of mists may aggravate pre-existing respiratory conditions.

Carcinogenicity: The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA and NTP.

Mutagenicity: No data

Reproductive effects: No data

Other information: None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life in low concentrations. Do not apply directly to freshwater habitats.

Persistence and Degradability: Expected to occur fairly rapidly in soil and water via microbial biotransformation and hydrolysis.

Bioaccumulative Potential: No data available.

Mobility in Soil: Limited potential for leaching to groundwater.

Other Adverse Effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Container Disposal: Non-refillable container. Do not reuse. Triple rinse container and place rinse water into the spray tank. If available, offer for recycling or puncture and dispose of in a sanitary landfill, or by other procedures approved by provincial and local authorities.

Waste Disposal: Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

SECTION 14: TRANSPORT INFORMATION

Canadian TDG classification: Not regulated

Transportation Emergency Telephone Number: 613-787-5620.

Special Precautions: None known.

Marine Pollutant: Potential marine pollutant.

SECTION 15: REGULATORY INFORMATION

WHMIS Classification: This product is registered under the *Pest Control Product Act* and is exempt from the requirements of WHMIS

Domestic Substance List (DSL): All ingredients are listed on the DSL

CEPA – National Pollutant Release Inventory: Not listed on the NPRI

SECTION 16: OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Norac Concepts Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein.

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