MATERIAL SAFETY DATA SHEET

NyGuard® IGR Concentrate

PRODUCT CODE: 002482

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE: EPA REG. NO. : 1021-1603
PRODUCT NAME: **NyGuard® IGR Concentrate**
PRODUCT DESCRIPTION: Emulsifiable insecticide concentrate containing insect growth regulator.
CHEMICAL NAME: Mixture
MANUFACTURER: **M**cLaughlin **G**ormley **K**ing Company, 8810 Tenth Avenue North, Minneapolis MN. 55427
TELEPHONE M-F, 8:00-4:30 CST, 14:00-22:30 GMT: (800) 645-6466 or (763) 544-0341
MSDS & Product Information, 8:00-4:30 CST, 14:00-22:30 GMT: (800) 645-6466 or (763) 544-0341

24 HOUR EMERGENCY PHONE (CHEMTREC) U.S. and CANADA:	(800)-424-9300	**CHEMTREC (ALL OTHER AREAS):**	(703) 527-3887

FOR INFORMATION REGARDING MEDICAL EMERGENCIES OR PESTICIDE INCIDENTS CALL:
1-888-740-8712 in U.S and CANADA or **952-852-9509** from all other areas

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Contains petroleum distillate - Vomiting may cause aspiration pneumonia.

EYES: Causes moderate eye irritation.
SKIN: Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth).
SKIN ABSORPTION: May be harmful if absorbed through the skin.
INGESTION: May be harmful if swallowed. Small amounts of this material may get into the lungs during ingestion or vomiting and may cause mild to severe lung injury.
INHALATION: Excessive inhalation may cause nasal and respiratory irritation.
CHRONIC EFFECTS: None known.

ECOLOGICAL: See Section's 12 and 15.
TOXICOLOGICAL: See Section 11.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EINECS	EXPOSURE LIMITS	% BY WT.
Pyriproxyfen (NYLAR®) [2-{1-Methyl-2-(4-phenoxyphenoxy) ethoxy} pyridine]	095737-68-1	Not available	Not established	10.0

PEL = Permissible Exposure Limits. TWA = Time Weighted Average (8 hr).
TLV = Threshold Limit Value. STEL = Short Term Exposure Limit (15 min.).

COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

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4. FIRST-AID MEASURES

FIRST AID PROCEDURES:

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 a poison control center or doctor for treatment advice.

SKIN: 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.

INHALATION: 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 center or doctor for further treatment advice.

INGESTION: Immediately call a poison control center or doctor for treatment advice. DO NOT give **any** liquid to the person. 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.

NOTE TO PHYSICIANS: This product contains Petroleum Distillates; Vomiting may pose an aspiration pneumonia hazard.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: **>**200 **ºF/** **>**93.3 **°C** **METHOD:** TAG Closed Cup

This product is NOT classified as a combustible or flammable liquid by OSHA.

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: not established.

UPPER FLAMMABLE LIMIT: not established.

AUTOIGNITION TEMPERATURE: not established.

SENSITIVE STATIC DISCHARGE: Yes, use proper bonding and/ or grounding procedures.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical.

FIRE FIGHTING INSTRUCTIONS: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

WASTE DISPOSAL METHOD: Contaminated absorbent and wash water should be disposed of according to local, state, and federal regulations.

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7. HANDLING AND STORAGE

HANDLING: Take prudent precautions to avoid contact with skin, eyes, and clothing. Do not contaminate water, food or feedstuffs by storage, handling or disposal. Read and observe all precautions and instructions on the label.

STORAGE: Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Emptied containers may retain product residues.
KEEP OUT OF REACH OF CHILDREN.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA! Wash Promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, and using the toilet.

ELECTROSTATIC ACCUMULATION: This product contains petroleum distillates, for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Not established by OSHA or ACGIH (see Section 2 for individual components).
ENGINEERING CONTROLS: Ventilate treatment area thoroughly before re-entry.
RESPIRATORY PROTECTION: Not required.
SKIN PROTECTION: Take prudent precautions to avoid contact with skin and clothing.
EYE PROTECTION: Take prudent precautions to avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light-yellow colored liquid.
ODOR: Sweet surfactant odor.
PHYSICAL STATE: Liquid
VAPOR PRESSURE: Not established
VOC: < 1%
VAPOR DENSITY: Heavier than air.
BOILING POINT: Not established
MELTING POINT: Not established
SOLUBILITY IN WATER: Partially miscible in water.
SPECIFIC GRAVITY: 0.939 @ 20ºC (68°F)
COLOR, (GARDNER): 3
pH: 5.0 @ 10% in H_2O.
WATER / OCTANOL PARTITION CO-EFFICIENT: Not established
VISCOSITY: 28 CPS @ 22°C (71.6°F)
REFRACTIVE INDEX: 1.4723 @ 25ºC (77°F)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Strong acidic or alkaline materials. Compounds containing a methoxy group.
HAZARDOUS DECOMPOSITION PRODUCTS: See Section 5
HAZARDOUS POLYMERIZATION: Will not occur

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11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES:

INGESTION:

Acute Oral LD_{50} (rat)	**>** 5,000 mg/kg

SKIN:

Acute Dermal LD_{50} (rabbit)	**>** 5,000 mg/kg
Primary skin irritation (rabbit):	Slightly irritating at 72 hours. Irritation Index = 2.5
Dermal Sensitization (guinea pig):	Negative; Not a dermal sensitizer.

INHALATION:

Acute Inhalation LC_{50} (rat)	**>** 5.05 mg/L. Rats exposed for 4 hours to test atmosphere.

EYE:

Primary eye irritation (rabbit):	Irritation cleared by Day 4.

SUBCHRONIC:

GENERAL COMMENTS:	Some or all of the toxicity data reported above was bridged from a substantially similar formula.

CHRONIC:

CARCINOGENICITY:	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.
ONCOGENICITY:	Not determined
REPRODUCTIVE:	Not determined
TERATOGENICITY:	Not determined
MUTAGENICITY:	Not determined

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

PERSISTENCE IN THE ENVIRONMENT

BIODEGRADATION:	Not available
CHEMICAL DEGRADATION:	Not available

TOXIC EFFECTS ON ORGANISMS:

FISH: LC_{50}	Not available
BIRD: LC_{50}	Not available
TOXICITY TO USEFUL INSECTS:	Not available

13. DISPOSAL CONSIDERATIONS

DISPOSAL:
If empty**:** Do not reuse this container. Place in trash or offer for recycling if available.
If partially filled**:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

RCRA / CERCLA HAZARDOUS WASTE:

INGREDIENT	**RCRA ID#:**	**CERCLA RQ-VALUE**
None		

RCRA/ EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40 CFR 251.33) or CERCLA Hazardous Substance List (40 CFR Part 302 Table 302.4).

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14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Liquid, N.O.S.
HAZARD CLASS: Non-Hazardous
IDENTIFICATION NUMBER (UN or NA): N/A
PACKING GROUP: N/A

OTHER SHIPPING INFORMATION: Not regulated as Hazardous by the Department of Transportation for Non-Bulk quantities (< 119 Gallons/ 450 Liters). Please contact MGK® when shipping in Bulk quantities.

INTERNATIONAL TRANSPORTATION REGULATIONS:

ICAO / IATA DESCRIPTION: Non-Hazardous
PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

IMO DESCRIPTION (IMDG CODE): Not Available.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA TITLE III: (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/ 312 HAZARD CATEGORIES:

FIRE: NO **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES

SECTION 313 REPORTABLE INGREDIENTS: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#:	CHEMICAL NAME:	% BY WEIGHT:

This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC): This product contains less than 1% VOC's.

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16. OTHER INFORMATION

HMIS RATINGS:

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in Section's 7 and 8 of this MSDS.

HEALTH:	**1**
FLAMMABILITY:	**1**
PHYSICAL HAZARD:	**1**

The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

Material **S**afety **D**ata **S**heet prepared by T. Azzivitto