



INDUCE®

A Nonionic Low Foam Wetter/Spreader Adjuvant

***ACTIVE INGREDIENTS:**

Alkyl Aryl Polyoxylkane ethers, alkanolamides, dimethyl siloxane, and Free Fatty Acids	90.0%
Components ineffective as adjuvant	10.0%

TOTAL	100.0%
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Surfactant Content: 70.0%

*All ingredients are accepted for use under CFR 40, 180.

**KEEP OUT OF REACH OF CHILDREN
WARNING**

See Inside Panel for Additional Precautionary Statements

SN 0107/0711

Protected by U.S. Patent 5,906,961

Manufactured For
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300 • COLLIERVILLE, TENNESSEE 38017

OPM #110238

PEEL BACK BOOK HERE AND RESEAL AFTER OPENING ►

NET CONTENTS:

PRECAUTIONARY STATEMENTS WARNING

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE--LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.

Formulated product causes eye irritation. Do not get in eyes, on skin, or on clothing. May be harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. In addition, follow precautionary statements on accompanying pesticide(s) label(s).

WHAT TO DO IN CASE OF CONTACT:

- IF IN EYES:** Immediately flush eyes with clean water for at least 15 minutes. See a physician.
- IF SWALLOWED:** Give a large amount of water to drink, make person vomit and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.
- IF INHALED:** Move victim to fresh air. Give artificial respiration if needed. See a physician.
- IF ON SKIN:** Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.

If contact is made with the spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide(s) label(s).

STORAGE AND DISPOSAL

Store in original container only. Keep container tightly closed, do not allow water to be introduced into the contents of this container. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters or spray waste. Do not store near heat or open flame.

Do not store with oxidizing agents.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and add rinsate to spray tank, then offer for recycling or reconditioning, or puncture and dispose of according to state and local authorities. If burned, stay out of smoke.

For help in chemical emergencies involving spill, leak, fire, or exposure, call toll free 1-800-424-9300.

GENERAL INFORMATION

INDUCE® is a patent protected blend of nonionic surfactants, deposition agents, humectants, and defoamers. **INDUCE**® incorporates the properties of a wetter/spreader surfactant when used in spray mixtures. **INDUCE**® is designed to quickly wet and spread a more uniform spray deposit over leaf and stem surfaces and improve spray mix deposition. **INDUCE**® can positively affect pesticide spray application and pesticide efficacy. **INDUCE**® is recommended for use with those pesticides whose label recommends a non-ionic wetter/spreader-type adjuvant.

DIRECTIONS FOR USE

FOR USE WITH PRODUCTS REGISTERED FOR: AGRICULTURAL, AQUATIC, FORESTRY, INDUSTRIAL, MUNICIPAL, NON-CROPLAND, ORNAMENTAL, RIGHTS-OF-WAY, TURF AND OTHER USES.

The addition of an adjuvant to some pesticides or pesticide tank mix combinations may cause phytotoxicity to the foliage and/or fruit of susceptible crops. Prior to the addition of **INDUCE**® to spray tank mixes, the user or application advisor must have experience with the combination or must have conducted a phytotoxicity trial or must take the recommendations from the labels of the products to be tank mixed.

INDUCE® may be applied by Ground, CDA, Aerial, or Aquatic spray equipment. For most applications, use enough **INDUCE**® to allow for uniform wetting and deposition of the spray onto leaf surfaces without undue runoff.

Ground, Aerial, CDA: Use 1-4 pints per 100 gallons of spray or 0.125-0.50% by volume.

Aquatic: Use 1-4 pints per 100 gallons of spray or 0.125-0.50% by volume.

***Note:** The above use recommendations are considered to be adequate for most uses. Some pesticides however, may require higher or lower rates for optimum effect. Follow the pesticide(s) label(s) directions when this occurs.

For improved water penetration of hard-to-wet soils and the uniform distribution of applied moisture:

Lawns and Turf: Use **INDUCE**® at .50% v/v concentration.

Greens and Tees: Use **INDUCE**® at .125-.25% v/v concentration.

Deep Feeding Trees: Use **INDUCE**® at .25-.50% v/v concentration.

Application of **INDUCE**® through irrigation systems are possible provided that recommended use rates and dilutions are maintained and local, state, and federal guidelines are followed.

MIXING

Prior to any pesticide application all spray mixing and application equipment must be cleaned. Carefully observe all cleaning directions of the pesticide(s) label(s).

Fill spray tank one-half full with water and begin agitation. Add pesticides as directed by labeling or in the following sequence:

1. Dry flowables or water dispersible granules.
2. Wettable powders
3. Flowables
4. Solutions
5. Emulsifiable concentrates

and continue filling. Add **INDUCE**® last and continue agitation.

CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale – Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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INDUCE® is a registered trademark of Helena Holding Company.

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Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE

I. IDENTIFICATION

Chemical Name: MIXTURE OF NONIONIC SURFACTANTS.
Chemical Family: SURFACTANTS
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.
EPA Number: CAL. REG. NO. 5905-50091

II. PHYSICAL DATA

Boiling Point: >250 DEGREES F.
Freezing Point: <40 DEGREES F.
Spec Gravity: .9975 GMS/CC
Vapor Pressure: NOT ESTABLISHED
Vapor Density: 2.1
Solubility: DISPERSIBLE
Volatiles: 8 - 10%
Evaporation: NOT APPLICABLE
Melting Point: NOT APPLICABLE
Appearance: YELLOW LIQUID, ALCOHOL ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF ALKYL ARYL POLYOXYLKANE ETHER, AND FREE FATTY ACIDS		90.00	150 MG/M3	MODERATE SKIN & EYE IRRITANT
WATER AND FORMULATION AIDS		10.00	N/E	NONHAZARDOUS

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 DEGREES F.
Autoignition Temp: >750 DEGREES F.
Flammable Limit: NOT APPLICABLE
Extinguishing Media: DRY CHEMICAL, WATER SPRAY, WATER FOG, CARBON
DIOXIDE, FOAM, OR SAND/EARTH.
Special Fire Fight Proc: FIRE FIGHTERS MUST BE EQUIPPED TO PREVENT
BREATHING OF VAPORS OR PRODUCTS OF COMBUSTION.
WEAR AN APPROVED SELF-CONTAINED BREATHING
APPARATUS AND PROTECTIVE CLOTHING.
Fire and Expl Hazard: WATER SPRAY MAY BE INEFFECTIVE. COOL FIRE-
EXPOSED CONTAINERS WITH WATER. FOG NOZZLES ARE

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PREFERABLE. CLOSED CONTAINERS MAY
RUPTURE/EXPLODE WHEN EXPOSED TO EXTREME HEAT.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: THE ACUTE ORAL LD50 (MALE RAT) = >5,010 MG/KG.
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA,
VOMITING AND DIARRHEA.
Skin Absorption: THE ACUTE DERMAL LD50 (RABBIT) = >2,010 MG/KG.
Inhalation: EXPOSURE MAY CAUSE NASAL AND RESPIRATORY
IRRITATION.
Skin contact: MAY CAUSE IRRITATION AFTER REPEATED EXPOSURE,
DEFATTING AND DERMATITIS. PRODUCT CONSIDERED A
MODERATE SKIN IRRITANT.
Eye Contact: MAY CAUSE SEVERE EYE IRRITATION IN UNWASHED
EYES. PRODUCT CONSIDERED A MODERATE EYE
IRRITANT.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: MILD IRRITATION OF EYES AND NOSE OCCURS AT
VERY HIGH CONCENTRATIONS. THE LIQUID CAN DEFAT
THE SKIN, PRODUCING A DERMATITIS CHARACTERIZED
BY DRYING AND FISSURING.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: GIVE 1 TO 2 GLASSES OF WATER TO DRINK AND
INDUCE VOMITING BY INSERTING FINGER TO BACK OF
THROAT. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF
IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
LAUNDRER CLOTHING BEFORE REUSE.
Inhalation: REMOVE TO FRESH AIR. IF BREATHING IS
DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN
IMMEDIATELY.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING
EYELIDS OPEN. IF IRRITATION PERSISTS, CALL A
PHYSICIAN.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT
SHOULD BE DIRECTED TOWARD CONTROL OF THE
SYMPTOMS.

VI. REACTIVITY

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Product: INDUCE

Stability: Stable
Conditions to Avoid: EXCESSIVE HEAT AND OPEN FLAMES.
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: AVOID CONTACT WITH STRONG OXIDIZERS SUCH AS
HYDROGEN PEROXIDE, BROMINE, AND CHROMIC ACID.
Hazardous Combustion: CARBON MONOXIDE AND CARBON DIOXIDE UNDER FIRE
CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: ABSORB WITH AN INERT MATERIAL SUCH AS SAND,
SOIL OR VERMICULITE. SWEEP UP AND DISPOSE OF
IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL
REGULATIONS.
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO
FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE
RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: USE NIOSH/MSHA CERTIFIED RESPIRATOR WITH
ORGANIC VAPOR CARTRIDGE IF CONCENTRATION
EXCEEDS PERMISSIBLE EXPOSURE LIMITS.
Ventilation: MECHANICAL EXHAUST SYSTEM.
Gloves: IMPERVIOUS
Eyes: CHEMICAL WORKERS GOGGLES.
Other: EYE WASH STATION, IMPERVIOUS APRON AND
FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE
WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED
OR CONSUMED BY HUMANS OR ANIMALS. DO NOT
CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR
PONDS. KEEP CONTAINERS TIGHTLY CLOSED. KEEP
AWAY FROM HEAT, SPARKS OR FLAMES. STORE
BETWEEN 40 DEGREES F AND 120 DEGREES F.
Other precaution: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL
SUBJECT TO THE REPORTING REQUIREMENTS OF
SECTION 313 OF TITLE III OF THE SUPERFUND
AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND
40 CFR PART 372.

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X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT IN LESS THAN BULK
PACKAGES. SEE TRANSPORTATION NOTE.

Hazard Class: NONE

Identification No: NONE

Labels Required: NONE REQUIRED

Placarding: NONE REQUIRED

Freight Class: ADJUVANT, SPREADER OR STICKER, LIQUID, NOIBN

Chemical Name

Equivalent R.Q.

NOT APPLICABLE

NOT APPLICABLE

TRANSPORTATION NOTE:

DOT: IF SHIPPED IN BULK PACKAGES, SHIP AS:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (ALCOHOL C-12
- C-16 POLY (1-6) ETHOXYLATE), 9, PG III, MARINE POLLUTANT "ERG 171"

AIR/WATER: IF SHIPPED IN ANY SIZE PACKAGE BY AIR OR WATER, SHIP AS:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (ALCOHOL C-12
- C-16 POLY (1-6) ETHOXYLATE), 9, PG III, MARINE POLLUTANT "ERG 171"

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1

Fire: 1

Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y

Delayed (Chronic) Health: N

Sudden Release of pressure: N

Fire: N

Reactive: N

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
Helena Chemical Company believes that the data contained herein is factual.
This data is not to be taken as a warranty or representation of legal
responsibility. It is offered solely for your consideration, investigation
and verification.