

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

Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE

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

Material Safety Data Sheet

Effective Date: 21-DEC-2010
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.

Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE

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.