

Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE PH

I. IDENTIFICATION

Chemical Name: MIXTURE OF SURFACTANTS
Chemical Family: SURFACTANTS
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE.
EPA Number: NONE REQUIRED

II. PHYSICAL DATA

Boiling Point: >200 DEGREES F.
Freezing Point: <35 DEGREES F.
Spec Gravity: 1.070 GMS/CC
Vapor Pressure: NOT DETERMINED
Vapor Density: NOT DETERMINED
Solubility: 100%
Volatiles: <0.5%
Evaporation: NOT DETERMINED
Melting Point: NOT APPLICABLE
Appearance: LIGHT BROWN LIQUID, SURFACTANT ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF ALKYL ARYL POLYOXYLKANE ETHERS, ALKYL ARYL POLYETHOXYETHANOL PHOSPHATES, PHOSPHORIC ACID, AND FREE FATTY ACIDS.	N/A	90.00	1 MG/M3	SKIN & EYE IRRITANT
WATER AND FORMULATION AIDS		10.00	N/E	NONHAZARDOUS

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >200 DEGREES F.
Autoignition Temp: NOT DETERMINED
Flammable Limit: NOT APPLICABLE
Extinguishing Media: WATER, ALCOHOL FOAM, DRY CHEMICAL AND CARBON DIOXIDE.
Special Fire Fight Proc: WEAR SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS. PROTECTIVE CLOTHING SHOULD BE WORN WHEN FIGHTING FIRES INVOLVING THIS PRODUCT.
Fire and Expl Hazard: CAN BE MADE TO BURN (FLASH POINT GREATER THAN

Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE PH

200 DEGREES F)

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: IRRITATION TO THROAT AND VOMITING.
Skin Absorption: LOW HAZARD EXPECTED.
Inhalation: MILD IRRITATION TO THE NASAL PASSAGES OCCURS
AT VERY HIGH CONCENTRATIONS.
Skin contact: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES
IRRITATION.
Eye Contact: MAY RESULT IN BURNS AND SEVERE EYE IRRITATION.
Chronic Effects: CHRONIC EFFECTS AND MEDICAL CONDITIONS
AGGRAVATED BY OVER-EXPOSURE TO THIS PRODUCT
HAVE NOT BEEN ESTABLISHED.
Other Hazard: PROLONGED INHALATION OF VAPORS CAUSES NAUSEA,
LOSS OF MOTORSKILLS, AND DISORIENTATION.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF
IRRITATION DEVELOPS,CONSULT A PHYSICIAN.
LAUNDRER CLOTHING BEFORE REUSE.
Inhalation: IF VAPORS OR MIST CAUSE IRRITATION OR
DISTRESS, MOVE TO FRESH AIR. OBTAIN MEDICAL
ATTENTION IF BREATHING BECOMES DIFFICULT.
Eyes: IN CASE OF CONTACT WITH EYES, IMMEDIATELY
FLUSH WITH WATER FOR 15 MINUTES. OBTAIN
MEDICAL ATTENTION IF IRRITATION PERSISTS.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT
SHOULD BE DIRECTED TOWARD CONTROL OF THE
SYMPTOMS AND THE CLINICAL CONDITION OF THE
PATIENT.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: NONE CURRENTLY KNOWN.
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: STRONG OXIDIZING AGENTS, STRONG ALKALINE OR
CAUSTIC MATERIALS.

Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE PH

Hazardous Combustion: MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE
AND OXIDES OF PHOSPHOROUS UNDER FIRE
CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: ROPE OFF CONTAMINATED AREA, COVER SPILL WITH
AND ABSORBENT, SUCH AS CLAY, SAND, OR SAWDUST.
PLACE IN RECOVERY DRUMS FOR PROPER DISPOSAL.
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: IF VAPORS/MISTS ARE PRESENT, USE NIOSH/MSHA
RESPIRATOR APPROVED FOR ORGANIC VAPORS.
Ventilation: LOCAL MECHANICAL EXHAUST SYSTEM.
Gloves: IMPERVIOUS
Eyes: CHEMICAL WORKERS GOGGLES.
Other: EYE WASH STATION, IMPERVIOUS APRON, FOOTWEAR
AND FACE SHIELD IF SPLASHING IS ANTICIPATED.

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.
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.

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT IN NON-BULK PACKAGES. SEE
TRANSPORTATION NOTE.
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE REQUIRED
Placarding: NONE REQUIRED

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

07-JAN-2011 16:13:47
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 21-DEC-2010
Product: INDUCE PH

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 OR WATER: IF SHIPPED 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: Y

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.