

M A T E R I A L S A F E T Y D A T A S H E E T



CLARIANT CORPORATION
 4000 MONROE ROAD
 CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D 204520	VERSION: 01 REVISED DATE: 01/23/2002
------------------------------	--------------------------------------

Page: 1

For Chemical Emergency
 Call CHEMTREC - Day or Night
 1-800-424-9300

For MSDS Info: (704) 331-7710
 CLARIANT Corporation: (704) 331-7000

----- H M I S -----
 HEALTH 2
 FLAMMABILITY 1
 REACTIVITY 0
 PERSONAL PROTECTION D

 SECTION 01 - PRODUCT IDENTIFICATION

TRADE NAME: HOSTAPHAT KL 340 D
 PRODUCT CODE: 204520
 VERSION NUMBER: 01
 ALPHA CODE: NOT AVAILABLE
 CAS NUMBER: MIXTURE
 SYNONYMS: PRODUCT HAS NO SYNONYMS
 CHEMICAL FAMILY: PHOSPHATE ESTER
 FORMULA: MIXTURE
 PRIMARY PRODUCT USE: SURFACTANT

 SECTION 02 - COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS

COMPONENT	CAS NO.	WT. %	PEL/TLV
HOSTAPHAT KL-340 D	PROPRIETARY	100	NOT ESTABLISHED

 SECTION 03 - HAZARDS IDENTIFICATION

(REFER TO SECTION 11 FOR ADDITIONAL INFORMATION)

EXPECTED ROUTE OF ENTRY:

SKIN CONTACT: X
 SKIN ABSORPTION:
 EYE CONTACT:
 INHALATION:
 INGESTION:

EFFECTS OF EXPOSURE:

BASED ON ANIMAL STUDIES WITH A PRODUCT OF SIMILAR COMPOSITION, THIS PRODUCT CAUSES IRRITATION TO SKIN AND NO IRRITATION TO EYES.

KNOWN EFFECTS ON OTHER ILLNESSES:

PRE-EXISTING SKIN DISEASES MAY BE ADDITIONALLY AGGRAVATED BY EXPOSURE TO THIS CHEMICAL SUBSTANCE.

LISTED CARCINOGEN:

NONE:
 OSHA:
 NTP:

CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 2

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 03 - HAZARDS IDENTIFICATION

(CONT.)

IARC:
OTHER:

SECTION 04 - FIRST AID MEASURES

FIRST AID FOR EYES:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES,
OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. SEEK PROMPT MEDICAL
ATTENTION IF REDNESS OR IRRITATION OCCURS.

FIRST AID FOR SKIN:

REMOVE CONTAMINATED CLOTHING WITHOUT DELAY. IMMEDIATELY WASH THE SKIN WITH
SOAP AND WATER UNDER A SAFETY SHOWER. IF REDNESS OR SKIN IRRITATION
OCCURS, SEEK MEDICAL ATTENTION.

FIRST AID FOR INHALATION:

GET VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING
HAS STOPPED. GET PROMPT MEDICAL ATTENTION. DO NOT GIVE FLUIDS IF VICTIM IS
UNCONSCIOUS.

FIRST AID FOR INGESTION:

IF INGESTED, SEEK MEDICAL ASSISTANCE.

NOTE TO PHYSICIAN:

NONE KNOWN

SECTION 05 - FIRE FIGHTING MEASURES

FLASH POINT ('F): > 212
FLAMMABLE LIMITS:
LEL: UNKNOWN
UEL: UNKNOWN

AUTOIGNITION TEMPERATURE ('F): UNKNOWN

HAZARDOUS COMBUSTION PRODUCTS:

THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON AND PHOSPHOROUS.

EXTINGUISHING MEDIA:

WATER:
ALCOHOL FOAM: X
CO2: X
DRY CHEMICAL: X
WATER/FOG SPRAY: X

CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 3

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 05 - FIRE FIGHTING MEASURES

(CONT.)

NO EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EMITS TOXIC AND CORROSIVE FUMES UNDER FIRE CONDITIONS.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

DIKE OR DAM SPILL AREA TO PROHIBIT PRODUCT FROM ENTERING WATERWAY.
VENTILATE THE AREA TO REMOVE VAPORS. SPILLS SHOULD BE TAKEN UP WITH SUITABLE ABSORBENT AND PLACED IN CONTAINERS. SPILL AREA CAN BE WASHED WITH WATER. COLLECT WASH WATER FOR APPROVED DISPOSAL.

SECTION 07 - HANDLING AND STORAGE

HANDLING AND STORAGE INFORMATION:

RECOMMENDED STORAGE TEMPERATURE IS 40 - 90°F.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

IF AIRBORNE CONCENTRATIONS POSE A HEALTH HAZARD, BECOME IRRITATING OR EXCEED RECOMMENDED LIMITS, USE A NIOSH APPROVED RESPIRATOR IN ACCORDANCE WITH OSHA RESPIRATORY PROTECTION REQUIREMENTS UNDER 29 CFR 1910.134

PROTECTIVE GLOVES:

BUTYL RUBBER, PVC OR NEOPRENE

EYE PROTECTION:

CHEMICAL SPLASH GOGGLES

OTHER PROTECTIVE EQUIPMENT:

WEAR CLOTHING SUITABLE TO PREVENT SKIN CONTACT. HAVE EYEWASH FOUNTAIN AND SAFETY SHOWER AVAILABLE IN THE WORK AREA.

VENTILATION:

LOCAL VENTILATION RECOMMENDED - MECHANICAL VENTILATION MAY BE USED.

EXPOSURE LIMITS:

NONE ON PRODUCT

CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 4

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)

IDLH (IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATION):
NOT DETERMINED

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: COLORLESS LIQUID WITH SLIGHT ORIGINAL ODOR

ODOR THRESHOLD: NOT AVAILABLE

PH (1 % IN WATER): 6.5 - 7.5

SOLUBILITY IN WATER: SOLUBLE

SPECIFIC GRAVITY: 1

BOILING POINT ('F): NOT AVAILABLE

MELTING POINT ('F): NOT AVAILABLE

FREEZING POINT ('F): NOT AVAILABLE

VAPOR PRESSURE(MM HG): NOT AVAILABLE

VAPOR DENSITY (AIR=1): > 1

EVAPORATION RATE: NOT AVAILABLE

LOSS ON DRYING(%): NOT AVAILABLE

VOC(EPA METHOD 24/24A): NOT AVAILABLE

OCTANOL/WATER PARTITION COEFFICIENT:

OTHER PHYSICAL AND CHEMICAL PROPERTIES:

DENSITY: 1 G/CM3 AT 25 C

VISCOSITY: 170 - 230 MPA.S AT 25 C

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY: NONE KNOWN

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50 (ORAL-RAT): > 2000 MG/KG BODY WEIGHT

DERMAL IRRITATION-RABBIT: IRRITATING

EYE IRRITATION-RABBIT: NON-IRRITATING

OTHER TOXICOLOGICAL VALUES:

TOXICITY AND ECOLOGICAL VALUES ARE BY ANALOGY WITH A PRODUCT OF SIMILAR

M A T E R I A L S A F E T Y D A T A S H E E T



CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 5

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 11 - TOXICOLOGICAL INFORMATION (CONT.)

COMPOSITION.

SECTION 12 - ECOLOGICAL INFORMATION

BIOLOGICAL ELIMINATION:

DATA FROM A SIMILAR PRODUCT > 80 % ANALYSIS: METHOD: OECD NO. 302 B

AQUATIC TOXICITY:

SPECIES: NONE LC100: NONE MG/L TIME: H
SPECIES: NONE LC 50: NONE MG/L TIME: H
SPECIES: GOLD FISH LC 0: 100-1000 MG/L TIME: 48 H

BACTERIAL INHIBITION:

NO INHIBITION (MG/L): NOT DETERMINED
50% INHIBITION (MG/L): NOT DETERMINED

BIOCHEMICAL OXYGEN DEMAND(BOD5-MG/L): NOT AVAILABLE
CHEMICAL OXYGEN DEMAND(COD-MG/L): 2140 MGO2/G

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION:

RECOMMENDED DISPOSAL IS BY INCINERATION IN APPROVED FACILITIES.

RCRA HAZARDOUS WASTE: NO - NOT AS SOLD.
RCRA #: NONE

FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS

SECTION 14 - TRANSPORT INFORMATION

DOT REGULATED: NO
HAZARD CLASSIFICATION: NOT REGULATED

SHIPPING NAME: CHEMICALS N.O.I.

DOT REGULATED BULK ONLY: NO

CANADIAN TRANSPORT REGULATION: NOT DETERMINED

INTERNATIONAL AIR TRANSPORTATION REGULATIONS: NOT REGULATED

M A T E R I A L S A F E T Y D A T A S H E E T



CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 6

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 14 - TRANSPORT INFORMATION

(CONT.)

INTERNATIONAL MARITIME DANGEROUS GOODS REGULATION: NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

TSCA: WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER
REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT.

SARA (SECTION 311/312):

REACTIVE HAZARD: N
PRESSURE HAZARD: N
FIRE HAZARD: N
IMMEDIATE/ACUTE: Y
DELAYED/CHRONIC: N

SARA(SECTION 302):

CONTAINS AN EXTREMELY HAZARDOUS SUBSTANCE: N

SARA(SECTION 313 - TOXIC CHEMICAL):

THIS PRODUCT DOES NOT CONTAIN ANY TOXIC CHEMICAL LISTED UNDER SECTION 313
OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986.

CLEAN WATER ACT - PRIORITY POLLUTANTS:

CONTAINS NO KNOWN PRIORITY POLLUTANTS AT CONCENTRATIONS GREATER THAN 0.1%.

CLEAN AIR ACT - VOLATILE ORGANIC COMPOUNDS:

VOC(EPA METHOD 24/24A): NOT AVAILABLE
LOSS ON DRYING (%): NOT AVAILABLE

CERCLA (FOR COMPONENTS LISTED IN SECTION 2): NO

LOWEST RQ: NONE

RCRA HAZARDOUS WASTE: NO - NOT AS SOLD.

RCRA #: NONE

FDA: THIS PRODUCT IS NOT REGISTERED WITH THE FDA

USDA: THIS PRODUCT IS NOT REGISTERED WITH THE USDA

CEPA: LISTED AS PRIORITY SUBSTANCE: NOT DETERMINED

LISTED AS TOXIC SUBSTANCE: NOT DETERMINED

EXPORT IS NOTIFIABLE: NOT DETERMINED

LISTED ON DSL: NOT DETERMINED

LISTED ON NDSL: NOT DETERMINED

CEPA STATUS:

PRODUCT NOT YET EVALUATED

M A T E R I A L S A F E T Y D A T A S H E E T



CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 7

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 15 - REGULATORY INFORMATION

(CONT.)

WHMIS: NOT EVALUATED

SECTION 16 - OTHER INFORMATION

OTHER PRECAUTIONS:

KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

STATE REGULATORY INFORMATION:

PENNSYLVANIA: NON-HAZARDOUS COMPONENTS BEING WITHHELD AS TRADE SECRET INFORMATION.

MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS SHOWN ABOVE IN SECTION 2 OF THIS MSDS. NON-HAZARDOUS COMPONENTS ARE BEING WITHHELD AS TRADE SECRET INFORMATION.

LABEL INFORMATION:

LABEL HAZARDS:

CAUTION!
MAY CAUSE SKIN IRRITATION.

LABEL PRECAUTIONS:

AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE WITH VENTILATION AND/OR RESPIRATORY PROTECTION TO KEEP EXPOSURE TO A MINIMUM. WASH THOROUGHLY AFTER HANDLING.

FIRST AID:

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, IF SYMPTOMS OF IRRITATION DEVELOP, SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION CONTINUES. WASH CLOTHING BEFORE REUSE.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION.

INGESTION: CONSULT PHYSICIAN.

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE,

M A T E R I A L S A F E T Y D A T A S H E E T



CLARIANT CORPORATION
4000 MONROE ROAD
CHARLOTTE, N.C. 28205

HOSTAPHAT KL 340 D
204520 VERSION: 01 REVISED DATE: 01/23/2002

Page: 8

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704) 331-7710
CLARIANT Corporation: (704) 331-7000

SECTION 16 - OTHER INFORMATION

(CONT.)

HANDLE WITH DUE CARE AND AVOID UNNECESSARY CONTACT WITH THIS PRODUCT.

THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE.

NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATA, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, IS MADE. CLARIANT CORPORATION ASSUMES NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

CLARIANT CORPORATION