

UNITOR CHEMICALS, A UNITOR GROUP CO. -- CLEANBREAK -- 6850-01-374-8642

===== Product Identification =====

Product ID:CLEANBREAK

MSDS Date:01/12/1995

FSC:6850

NIIN:01-374-8642

MSDS Number: CCMKW

=== Responsible Party ===

Company Name:UNITOR CHEMICALS, A UNITOR GROUP CO.

Address:3140 BORGHEIM,NORWAY

Box:49

Emergency Phone Num:800-424-9300(CHEMTREC)

Chemtrec Ind/Phone:(800)424-9300

CAGE:NO539

=== Con

tractor Identification ===

Company Name:UNITOR CHEMICALS, KJEMI-SERVICE AS, A UNITOR GROUP CO.

Address:3140 BORGHEIM, NORWAY

Box:49

Country:NO

Phone:+47 33384600

CAGE:NO539

Company Name:UNITOR SHIPS SERVICE A/S

CAGE:N0186

Company Name:UNITOR SHIPS SERVICE INC

Address:3429 VIRGINIA BEACH BLVD

Box:City:NORFOLK

State:VA

ZIP:23502

Country:US

Phone:804-853-4507

Contract Num:SP0450-99-M-NC68

CAGE:0B8W4

===== Composition/Information on Ingredients =====

Ingred Name:PER MSDS: NONE OF

INGREDIENTS ARE LISTED AS HAZARDOUS.

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 NOT DETERMINED.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:MILDLY IRRITATING TO EYES. PROLONGED SKIN CONTACT WILL RESULT IN DEFATTING OF SKIN,LEADING TO IRRITATION & IN SOME CASES, DERMATITIS. INHALATION OF SOLVENT VAPOURS MAY GIVE

RISE TO NAUSEAS, HEADACHES, DIZZINESS.

Explanation of Carcinogenicity:NO SPECIFIC TESTS WERE DONE TO PROVE THAT PRODUCT DOES NOT HAVE CARCINOGENIC EFFECTS.

Effects of Overexposure:MILD EYE IRRITATION, DEFATTING OF SKIN, SKIN IRRITATION, DERMATITIS. NAUSEA, HEADACHES, DIZZINESS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:INHALED-INHALATION IS UNLIKELY TO OCCUR. SEEK MEDICAL AT

TENTION IF EFFECTS OCCUR. SKIN-FUSH AREA WITH WARM WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. CONTAMINATE CLOTHES SHOULD BE LAUNDERED BEFORE REUSE.EYES-IMMEDIATELY FLUSH WITHPLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. INGESTION-NEVER MAKE AN UNCONSCIOUS PERSON TO VOMIT OR DRINK FLUIDS. DO NOT INDUCE VOMITING! SEEK IMMEDIATE MEDICAL ATTENTION. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE; SHOW LABEL IF POSSIBLE.

===== Fire Fighting Measures =====

Flash Point Method:CC

Flash Point:=65.C, 149.F

Autoignition Temp:=225.C, 437.F

Lower Limits:0.6

Upper Limits:8.0

Extinguishing Media:IN CASE OF FIRE USE FOAM, CARBON DIOXIDE, OR DRY AGENT(S-43).

Fire Fighting Procedures:KEEP CONTAINERS EXPOSED TO FIRE COOL, BY SPRAYING WITH WATER.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

===== Accidental Release Measures =====

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Spill Release Procedures:WEAR PROTECTIVE CLOTHING. CONTAIN SPILLAGE BY ANY MEANS POSSIBLE.DON'T ALLOW TO ENTER PUBLIC SEWERS AND WATERCOURCES. ABSORB IN SUITABLE INERT MATERIAL & PLACE IN APPROPRIATE CNTNR.VENTILATE AREA.WASH SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:THE USUAL PRECAUTIONS FOR HANDLING CHEMICALS SHOU

LD BE OBSERVED. AVOID EYE OR SKIN CONTACT. ENSURE ADEQUATE VENTILATION. DON'T BREATHE VAPOUR.

Other Precautions:KEEP ONLY IN ORIGINAL CONTAINER IN COOL WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED & DRY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROVED RESPIRATOR IF EXPOSURE IS LIKELY TO EXCEED MEL/OES (TLV/PEL).

Ventilation:NONE SPECIFIED BY MANUFACTURER.

Protective Gloves:PLASTIC,RUBBER GLOVES RECOMMENDED.

Eye Protec

tion:EYE/FACE PROTECTION.

Other Protective Equipment:WEAR SUITABLE PROTECTIVE CLOTHING.

Work Hygienic Practices:CONTAMINATED CLOTHING SHOULD BE RELAUNDERED BEFORE REUSE.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

===== Physical/Chemical Properties =====

HCC:V4

Boiling Pt:=195.C, 383.F

Decomp Temp:Decomp Text:NP

Vapor Pres:N/ESTABLIS

Spec Gravity:0.79 @20C

pH:NA

Solubility in Water:INSOLUBLE.

Appearance and Odor:LIQUID, CLEAR BROWN, SLIGHT SOL

VENT ODOR.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:DO NOT STORE IN EXTREME TEMPERATURES.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

===== Toxicological Information =====

Toxicological Information:TOXIC DOSE (LD50): NOT DETERMINED. TOXIC

CONCENTRATION (LC50): NOT DETERMINED. CARCI

NOGENICITY: NO SPECIFIC

TESTS WERE DONE TO PROVE THAT THE PRODUCT DOES NOT HAVE
CARCINOGENIC EFFECTS.

===== Ecological Information =====

Ecological:THIS PRODUCT IS INSOLUBLE, HENCE THE TARDE NAME

"CLEANBREAK", ITS ENVIRONEMENTAL PROPERTIES, THOUGH SCARCE, ARE
ENCOURAGING. THE ABSENCE OF LOWER CHAIN ALKANES ENSURES LOW
TOXICITY AND LITTLE CHANCE O F BIOACCUMULATION. BIODEGRADATION DATA
WOULD BE DESIRABLE IN FUTURE FOR COMPLETE EVALUATION

. HOWEVER, THE

RESULTS OF THE HYDROCARBON FALILIES METHOD IS SUFFICIENT AT PRESENT
TO CATAGORISE THE INGREDIE NTS SATISFACTORY WITHIN THE LIMITS OF
THE NEW IMO REGULATIONS.

===== Disposal Considerations =====

Waste Disposal Methods:MATERIAL & ITS CONTAINER MUST BE DISPOSED OF IN
A SAFE WAY. DISPOSAL SHOULD BE IAW LOCAL, STATE AND FEDERAL
LEGISLATION.

===== MSDS Transport Information =====

Transport Information:

NOT REGULATED.

===== Regulatory Information =====

SARA Title III Information:NONE SPECIFIED BY MANUFACTURER.
Federal Regulatory Information:NONE SPECIFIED BY MANUFACTURER.
State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

===== Other Information =====

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