

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

=== Co

Contract 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 O

F 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 A

TTENTION 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 =====

=====

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 SHO

ULD 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 Prote

ction: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 SO

LVENT 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. CARC

INOGENICITY: 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 EVALUATIO

N. 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 =====
=====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The
United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.