

**Common Name:** ANDEROL HF-32

**Manufacturer:** CHEMTURA

**MSDS Revision Date:** 1/18/2011

**MSDS Format:** No Format Specified

**Grainger Item Number(s):** 1AJC7

**Manufacturer Model Number(s):**

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CHEMTURA

ANDEROL HF-32

MATERIAL SAFETY DATA SHEET

VERSION: 1.1

REVISION DATE: 01/18/2011

PRINT DATE: 03/09/2011

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: ANDEROL HF-32

PRODUCT USE DESCRIPTION: LUBRICANT

COMPANY:

CHEMTURA CORPORATION

199 BENSON ROAD

MIDDLEBURY, CT 06749  
UNITED STATES OF AMERICA

TELEPHONE: 866-430-2775

EMERGENCY TELEPHONE NUMBER:  
CHEMTREC: (24 HOURS) 800-424-9300

CHEMTURA CORPORATION EMERGENCY RESPONSE:  
CHEMTURA: 800-292-5898

FOR ADDITIONAL EMERGENCY TELEPHONE NUMBERS SEE SECTION 16 OF THE SAFETY  
DATA SHEET.

PREPARED BY:  
PRODUCT SAFETY DEPARTMENT  
(US): +1 866-430-2775

+011-886-2-2712-5668

MSDSREQUEST@CHEMTURA.COM

## SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION!

FORM: LIQUID

COLOR: AMBER

ODOR: MILD

HAZARD SUMMARY: MAY CAUSE EYE AND SKIN IRRITATION.

OSHA HAZARDS:  
THIS MATERIAL IS NOT HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA  
HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

POTENTIAL HEALTH EFFECTS:

PRIMARY ROUTES OF ENTRY:  
EYE CONTACT  
SKIN CONTACT

AGGRAVATED MEDICAL CONDITION: SKIN DISORDERS

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

SKIN:  
MAY CAUSE SKIN IRRITATION.  
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

EYES: MAY CAUSE EYE IRRITATION.

INGESTION:  
MAY BE HARMFUL IF SWALLOWED.  
ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.

SYMPTOMS OF OVEREXPOSURE: NO INFORMATION AVAILABLE.

CARCINOGENICITY

CARCINOGENICITY:

IARC:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

OSHA:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

NTP:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

ACGIH:

NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

NO INGREDIENTS ARE HAZARDOUS ACCORDING TO HCS CRITERIA.

### SECTION 4. FIRST AID MEASURES



FIRST AID PROCEDURES:

INHALATION:

IF INHALED

MOVE TO FRESH AIR.

IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IN CASE OF BLUISH DISCOLORATION (LIPS, EAR LOBES, FINGERNAILS), GIVE OXYGEN AS QUICKLY AS POSSIBLE.

IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

SKIN CONTACT:

IN CASE OF SKIN CONTACT

WASH OFF WITH SOAP AND WATER.

REMOVE CONTAMINATED CLOTHING AND SHOES.

WASH CONTAMINATED CLOTHING BEFORE RE-USE.

GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

EYE CONTACT:

IN CASE OF EYE CONTACT

RINSE THOROUGHLY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS.

IF EYE IRRITATION PERSISTS, CONSULT A SPECIALIST.

INGESTION:

IF SWALLOWED, DO NOT INDUCE VOMITING.

CONSULT A PHYSICIAN IF NECESSARY.

NOTES TO PHYSICIAN:

SYMPTOMS: NO INFORMATION AVAILABLE.

TREATMENT: NO INFORMATION AVAILABLE.

### SECTION 5. FIRE-FIGHTING MEASURES



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FLAMMABLE PROPERTIES:

FLASH POINT: >410 DEG. F (210 DEG. C)  
METHOD: OPEN CUP

IGNITION TEMPERATURE:  
REMARKS: NOT DETERMINED

LOWER EXPLOSION LIMIT:  
REMARKS: NO DATA AVAILABLE

UPPER EXPLOSION LIMIT:  
REMARKS: NO DATA AVAILABLE

FIRE FIGHTING:

SUITABLE EXTINGUISHING MEDIA:  
CARBON DIOXIDE (CO2)  
DRY POWDER  
FOAM  
ALCOHOL-RESISTANT FOAM  
WATER MIST

UNSUITABLE EXTINGUISHING MEDIA: WATER

FURTHER INFORMATION: IN THE EVENT OF FIRE, COOL TANKS WITH WATER SPRAY.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

SPECIFIC HAZARDS DURING FIRE FIGHTING:  
BURNING PRODUCES NOXIOUS AND TOXIC FUMES.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:  
IN THE EVENT OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS.  
USE PERSONAL PROTECTIVE EQUIPMENT.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**



PERSONAL PRECAUTIONS:  
USE PERSONAL PROTECTIVE EQUIPMENT.  
ENSURE ADEQUATE VENTILATION.

ENVIRONMENTAL PRECAUTIONS:  
SHOULD NOT BE RELEASED INTO THE ENVIRONMENT.  
DO NOT CONTAMINATE WATER.  
DO NOT FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEM.

METHODS FOR CONTAINMENT / METHODS FOR CLEANING UP:  
CONTAIN SPILLAGE, SOAK UP WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND TRANSFER TO A CONTAINER FOR DISPOSAL ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE SECTION 13).

ADDITIONAL ADVICE: FORMS SLIPPERY/GREASY LAYERS WITH WATER.

## **SECTION 7. HANDLING AND STORAGE**



HANDLING:

HANDLING PROCEDURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

DO NOT USE PRESSURE TO EMPTY DRUMS.

ENSURE ALL EQUIPMENT IS ELECTRICALLY GROUNDED BEFORE BEGINNING TRANSFER OPERATIONS.

STORAGE:

REQUIREMENTS FOR STORAGE AREAS AND CONTAINERS:

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

OTHER DATA: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE GUIDELINES:

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

ENGINEERING MEASURES:

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:

SAFETY GLASSES WITH SIDE-SHIELDS  
TIGHTLY FITTING SAFETY GOGGLES

HAND PROTECTION: NEOPRENE GLOVES

SKIN AND BODY PROTECTION: IMPERVIOUS CLOTHING

RESPIRATORY PROTECTION:

BREATHING APPARATUS NEEDED ONLY WHEN AEROSOL OR MIST IS FORMED.  
IN THE CASE OF VAPOR FORMATION USE A RESPIRATOR WITH AN APPROVED FILTER.

HYGIENE MEASURES:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.  
PROVIDE ADEQUATE VENTILATION.  
DO NOT BREATHE DUST OR SPRAY MIST.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE:

FORM: LIQUID

COLOR: AMBER

ODOR: MILD

SAFETY DATA:

FLASH POINT: >410 DEG. F (210 DEG. C)  
METHOD: OPEN CUP

IGNITION TEMPERATURE:

REMARKS: NOT DETERMINED

LOWER EXPLOSION LIMIT:  
NOTE: NO DATA AVAILABLE

UPPER EXPLOSION LIMIT:  
NOTE: NO DATA AVAILABLE

pH:  
NOTE: NOT APPLICABLE

VAPOR PRESSURE:  
NOTE: NO DATA AVAILABLE

DENSITY: 0.86 - 0.87 G/CM3

WATER SOLUBILITY:  
NOTE: SLIGHTLY SOLUBLE

## **SECTION 10. STABILITY AND REACTIVITY**



CONDITIONS TO AVOID:  
REMARKS: HEAT.

MATERIALS TO AVOID:  
REMARKS: STRONG ACIDS AND STRONG BASES

HAZARDOUS DECOMPOSITION PRODUCTS:  
NOTE: CARBON OXIDES

HAZARDOUS REACTIONS: HAZARDOUS POLYMERISATION DOES NOT OCCUR.

## **SECTION 11. TOXICOLOGICAL INFORMATION**



ACUTE INHALATION TOXICITY:  
REMARKS: NOT CLASSIFIED DUE TO LACK OF DATA.

ACUTE DERMAL TOXICITY:  
REMARKS: NOT CLASSIFIED DUE TO LACK OF DATA.

SKIN IRRITATION:  
REMARKS: NOT CLASSIFIED DUE TO LACK OF DATA.

EYE IRRITATION:  
REMARKS: NOT CLASSIFIED DUE TO LACK OF DATA.

SENSITISATION:  
REMARKS: NOT CLASSIFIED DUE TO LACK OF DATA.

TOXICOLOGY ASSESSMENT:

CMR EFFECTS:

CARCINOGENICITY: NOT CLASSIFIED DUE TO LACK OF DATA.

MUTAGENICITY: NOT CLASSIFIED DUE TO LACK OF DATA.

REPRODUCTIVE TOXICITY: NOT CLASSIFIED DUE TO LACK OF DATA.

FURTHER INFORMATION: THERE IS NO DATA AVAILABLE FOR THIS PRODUCT.

## **SECTION 12. ECOLOGICAL INFORMATION**



ECOTOXICITY EFFECTS:

TOXICITY TO FISH:

REMARKS: NO DATA AVAILABLE

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES.:

REMARKS: NO DATA AVAILABLE

TOXICITY TO ALGAE:

REMARKS: NO DATA AVAILABLE

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY):

BIOACCUMULATION:

REMARKS: NO DATA AVAILABLE

MOBILITY:

REMARKS: NO DATA AVAILABLE

BIODEGRADABILITY:

RESULT: NO DATA AVAILABLE

FURTHER INFORMATION ON ECOLOGY:

ECOTOXICOLOGY ASSESSMENT:

RESULTS OF PBT ASSESSMENT:

THIS SUBSTANCE IS NOT CONSIDERED TO BE PERSISTENT, BIOACCUMULATING NOR

TOXIC (PBT).

ADDITIONAL ECOLOGICAL INFORMATION:

THERE IS NO DATA AVAILABLE FOR THIS PRODUCT.

## **SECTION 13. DISPOSAL CONSIDERATIONS**



FURTHER INFORMATION: IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

CONTAMINATED PACKAGING:

DO NOT BURN, OR USE A CUTTING TORCH ON, THE EMPTY DRUM.

## **SECTION 14. TRANSPORT INFORMATION**



DOT: NOT DANGEROUS GOODS

TDG: NOT DANGEROUS GOODS

IATA: NOT DANGEROUS GOODS

IMDG: NOT DANGEROUS GOODS

RID: NOT DANGEROUS GOODS

## **SECTION 15. REGULATORY INFORMATION**



OSHA HAZARDS:

THIS MATERIAL IS NOT HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW:

SARA 302 REPORTABLE QUANTITY:

CALIFORNIA PROP. 65 COMPONENTS:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

THE COMPONENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

TSCA: ON TSCA INVENTORY

DSL: ALL COMPONENTS OF THIS PRODUCT ARE ON THE CANADIAN DSL LIST.

AICS: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

NZIOC: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

ENCS: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

KECI: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

PICCS: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

IECSC: ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY

CH INV: THE FORMULATION CONTAINS SUBSTANCES LISTED ON THE SWISS INVENTORY

## SECTION 16. OTHER INFORMATION



FURTHER INFORMATION:

HMIS CLASSIFICATION:

HEALTH HAZARD 1  
FLAMMABILITY 1  
REACTIVITY 0

NFPA CLASSIFICATION:

HEALTH HAZARD 1  
FIRE HAZARD 1  
REACTIVITY HAZARD 0

OTHER EMERGENCY PHONE NUMBER:

LATIN AMERICA:

BRAZIL: +52 113 711 91 44  
ALL OTHER COUNTRIES: +44 (0)208 762 8322

MEXICO: +52 555 004 87 63

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.



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