

SECTION 1: PRODUCT AND COMPANY ID

COMMERCIAL NAME:	HAMMERDUTY™
CHEMICAL NAME:	LUBRICANT GREASE
PRODUCT SYNONYM:	LUBRICANT GREASE
PRODUCT CODE:	HMDY-200
APPROPRIATE IDENTIFIED USES FOR THE PRODUCT OR MIX	
RECOMMENDED USE:	RUST PREVENTIVE GREASE
MANUFACTURER:	GREASECO
ADDRESS:	1101 CUMBERLAND DRIVE, #252 VALPARAISO, IN 46383 UNITED STATES OF AMERICA
PHONE:	+1-800-773-6432
USA 24-HOUR EMERGENCY NUMBER:	+1-800-255-3924
INTERNATIONAL EMERGENCY NUMBER:	+1-813-248-0585
WEBSITE:	WWW.GREASECO.COM
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SECTION 2: HAZARD IDENTIFICATION

EVEN THOUGH THIS MATERIAL IS NOT CONSIDERED DANGEROUS BY THE OSHA STANDARD 29 CFR 1910.1200, THIS SDS CONTAINS VALUABLE INFORMATION FOR THE HANDLING AND ADEQUATE USE OF THE PRODUCT. THIS SDS MUST BE KEPT AND SHALL BE AVAILABLE FOR THE PRODUCT USERS.

VISUAL ASPECT:	SEMI-SOLID BRIGHT
ODOR:	CHARACTERISTIC
PICTOGRAM(S):	
WARNING:	CAUTION!
OTHER HAZARDS:	NONE IDENTIFIED
Cautions:	WEAR PERSONAL PROTECTIVE EQUIPMENT (PPE): GLASSES, GLOVES, PROTECTIVE WEAR. SEE SECTION 16.
Waste:	ALL THE WASTE PRACTICES MUST COMPLY WITH THE LOCAL, REGIONAL AND INTERNATIONAL NORMS.

SECTION 3: COMPOSITION/COMPONENT INFO

INGREDIENTS		
COMPONENT	PERCENTAGE	# CAS
1,3,4-THIADIAZOLE-2(3H)-THIONE,5,5'-DITHIOBIS-	1-5%	72676-55-2
COPPER	1-5%	7440-50-8

SECTION 4: FIRST AID MEASURES

EYES:	MAY CAUSE IRRITATION AND BLURRY OR CLOUDY VISION. EYES SHOULD BE WASHED THOROUGHLY WITH WATER, AND IF NEEDED, GET MEDICAL ATTENTION.
SKIN:	IF EXPOSED FOR LONG PERIODS OF TIME, MAY CAUSE MILD IRRITATION. IF PRODUCT IS RELEASED WITH HIGH PRESSURE AN UNDER SKIN INJECTION COULD TAKE PLACE, IN THIS CASE AN EMERGENCY SURGICAL INTERVENTION IS REQUIRED.
INHALATION:	TO INHALE THIS MATERIAL IN CONCENTRATIONS OVER THE ADVISED LIMIT MAY CAUSE HARMFUL EFFECTS OVER THE CENTRAL NERVOUS SYSTEM. MAY CAUSE RESPIRATORY IRRITATION OR SOME OTHER PULMONARY EFFECT AFTER EXTENDED OR REPEATED INHALATION OF THE OIL FOG IN LEVELS HIGHER THAN RECOMMENDED FOR EXPOSURE LIMIT.



SECTION 4: FIRST AID MEASURES (CONTINUED)

INGESTION:	THIS IS AN IMPLAUSIBLE EXPOSURE ROUTE BUT IN THE EVENT OF INGESTION, DO NOT INDUCE VOMIT. IF CONSCIOUS, SUPPLY 2 GLASSES OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.
SIGNS AND SYMPTOMS OF EXPOSURE:	EFFECTS OVER THE CENTRAL NERVOUS SYSTEM MAY INCLUDE, HEADACHES, DIZZINESS, NAUSEA, VOMIT, GENERAL WEAKNESS, LOSE OF COORDINATION, BLURRY VISION, SOMNOLENCE, CONFUSION, DISORIENTATION. IN THE CASE OF EXTREME EXPOSURE, EFFECTS OVER THE CENTRAL NERVOUS SYSTEM MAY INCLUDE, RESPIRATORY DEPRESSION, SHAKING AND UNCONSCIOUSNESS.

SECTION 5: MEASURES TO FIGHT FIRE

FLASH POINT:	VARIABLE DEPENDING ON VISCOSITY GRADE. – SEE ASTM D 92 RESULTS ON SECTION 9.
EXTINGUISHING MEDIA:	CARBON DIOXIDE, CHEMICAL DRY POWDER OR FOAM. WATER COULD BE USED FOR COOLING AND PROTECTING EXPOSED MATERIAL.
INADEQUATE EXTINGUISHING MEDIA:	UNSPECIFIED
FIRE FIGHTING PROCEDURES	USE THE COMPLETE PROTECTION EQUIPMENT AGAINST FIRE, INCLUDING THE AUTONOMOUS RESPIRATORY SYSTEM, POSITIVE PRESSURE OPERATED WITH THE MASK, PROTECTIVE WEAR, PANTS, GLOVES AND BOOTS. DO NOT USE JET OF WATER.
FIRE RISKS AND UNUSUAL FIRES	HIGH TEMPERATURES MAY LEAD TO SMOKE AND STEAM.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL SPILLAGE

INDIVIDUAL PRECAUTIONS PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	IN CASE OF LEAKAGE, CLEAN THE AREA AS SOON AS POSSIBLE. PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN. AVOID ANY SKIN, EYE AND CLOTHING CONTACT. VENTILATE THE AREA IF LEAKAGE TAKES PLACE ON AN ENCLOSED OR POOR VENTILATED AREA.
ENVIRONMENTAL PRECAUTIONS AND EMERGENCY PROCEDURES:	TAKE PREVENTIVE MEASURES NEEDED TO AVOID ANY ENVIRONMENTAL CONTAMINATION. AVOID SPILLS ON FLOORS, SEWERS, FLUVIAL CHANNELS AND UNDERGROUND WATER DEPOSITS.
CLEANING AND DISPOSAL METHODS:	SECURE THE MATERIAL IN ORDER TO AVOID FUTURE CONTAMINATION. CLEAN THE AREA USING APPROPRIATE TECHNIQUES SUCH AS THE USE OF ABSORBENT MATERIALS AND PUMPING. FOLLOW THE ESTABLISHED PROCEDURES TO REPORT IMPORTANT AND OUT OF CONTROL LEAKS.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURE:	MAKE SURE THERE IS PROPER VENTILATION. KEEP CONTAINERS CLOSED AND VERTICALLY POSITIONED WHEN NOT IN USE. DO NOT POUR ON SEWER OR THE ENVIRONMENT. DISPOSE OF THE MATERIAL IN AN AUTHORIZED COLLECTING POINT. USE AN APPROPRIATE SAFETY CONTAINER TO AVOID ENVIRONMENTAL POLLUTION. AVOID CONTACT WITH EYES, AND ALSO REPEATED OR EXTENDED CONTACT WITH SKIN. DO NOT EAT, DRINK OR SMOKE WHILE HANDLING THIS PRODUCT. AVOID INHALING POWDER, SMOKE, FOG OR FUMES. AVOID EXCESSIVE OVERHEATING. DO NOT USE EMPTY CONTAINERS, THESE CONTAIN PRODUCT RESIDUE WHICH REPRESENT THE SAME RISKS AS FULL PRODUCT. DO NOT DRINK, TASTE OR SWALLOW THIS PRODUCT. PACKAGING AND CONTAINERS MUST BE DISPOSED IN COMPLIANCE WITH LOCAL, NATIONAL AND INTERNATIONAL NORMS.
STORAGE PROCEDURE:	TAKE PROPER PRECAUTIONS TO AVOID ENVIRONMENTAL POLLUTION. STORE IN A FRESH, DRY AND WELL VENTILATED AREA. DECOMPOSITION FROM THIS PRODUCT MAY PRODUCE TOXIC FUMES IF STORED AT TEMPERATURES OVER 60 °C FOR LONG PERIODS OF TIME OF IF EXTREMELY HIGH SOURCES OF HEAT ARE USED. KEEP AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE IN OPEN CONTAINERS, UNLABELED OR INCORRECTLY LABELED. SEE SECTION 10 FOR INCOMPATIBLE MATERIAL LIST.
HANDLING AND STORAGE:	DO NOT STORE NEAR HEATH SOURCES, FLAME, SPARKS OR STRONG ANTI-RUST. KEEP CONTAINERS CLOSED AND LABELED AT ALL TIMES WHEN NOT IN USE. DO NOT STORE NEXT TO INCOMPATIBLE MATERIALS.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	IN NORMAL CONDITIONS, RESPIRATORY PROTECTION IS NOT REQUIRED, SPECIAL PRECAUTIONS ARE REQUIRED IF OPERATION GENERATES OIL MIST, THE EXPOSURE IS EXTENDED AND THE PROPER RESPIRATOR IS NOT USED.
EYE PROTECTION:	IF THERE'S ANY CONTACT RISK, WEAR PROTECTIVE GLASSES WITH LATERAL COVERS. OR A PROTECTIVE MASK AS A SAFETY MEASURE.
PROTECTIVE GLOVES:	SUGGESTED MATERIALS FOR PROTECTIVE GLOVES ARE: VITON AND NITRILE RUBBER. FOR USE WHILE THIS MATERIAL IS BEING HANDLED.
OTHER PROTECTIVE MEASURES:	CONSIDER THIS MATERIAL'S POTENTIAL RISK MEASURES, EXPOSURE LIMITS, ACTIVITY AND OTHER SUBSTANCES IN THE WORK AREA. IF THE CONTROLS AND WORK PROCEDURES ARE NOT THE ADEQUATE ONES TO PREVENT EXPOSURE AT DANGEROUS LEVELS, THE USE OF PROTECTIVE EQUIPMENT IS ADVISED (LISTED BELOW). OPERATOR MUST READ AND UNDERSTAND ALL THE INSTRUCTIONS AND LIMITATIONS STATED ON THIS SAFETY DATA SHEET.



SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION (CONTINUED)

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL), AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) THRESHOLD LIMIT VALUE (TLV), AND ANY OTHER EXPOSURE LIMIT USED OR RECOMMENDED BY THE CHEMICAL MANUFACTURER, IMPORTER, OR EMPLOYER PREPARING THE SAFETY DATA SHEET, WHERE AVAILABLE:

CHEMICAL COMPONENT: COPPER	ACGIH TLV: 1 MG/M3 (DUSTS/MISTS)
ACGIH TLV:	5 MG/M3 (WHEN FUMES OR FOG ARE PRESENT)
OSHA PEL:	5 MG/M3 (WHEN FUMES OR FOG ARE PRESENT)
HYGIENE MEASURES:	THOROUGHLY WASH HANDS AFTER HANDLING PRODUCT. DO NOT EAT, DRINK, OR SMOKE.
APPROPRIATE ENGINEERING CONTROLS:	NO EXPOSURE LIMITS EXIST FOR THE CONSTITUENTS OF THIS PRODUCT. USE LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO MINIMIZE EXPOSURES AND MAINTAIN OPERATOR COMFORT.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

TEXTURE	TRANSLUCENT BRIGHT SMOOTH
PHYSICAL STATE:	VISCOUS LIQUID
COLOR:	COPPER
ODOR:	PETROLEIUM TYPE
PH:	ND
BOILING POINT, °C:	ND
FLASH POINT, °C:	> 560°F (293°C)
DROPPING POINT, °C:	ND
POUR POINT, °C:	ND
RELATIVE DENSITY	1.06
WATER SOLUBILITY	NEGLECTIBLE, 0-1%
VISCOSITY:	160000-230000 CP
NLGI GRADE:	2
CINEMATIC VISCOSITY@ 100 °C, CST.:	ND

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	MATERIAL IS GENERALLY STABLE AT NORMAL TEMPERATURES AND PRESSURES. AVOID HIGH IGNITION ENERGY SOURCES.
INCOMPATIBILITY (MATERIALS TO AVOID):	STRONG ACIDS, STRONG BASES, STRONG OXIDANT AGENTS.
HAZARDOUS BYPRODUCTS RELEASED DURING DECOMPOSITION:	THERMIC DECOMPOSITION OR BURNING COULD RELEASE CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN AND SULPHUR.
SPONTANEOUS POLYMERIZATION:	WON'T OCCUR.
CONDITIONS TO AVOID:	DO NOT HEAT AT TEMPERATURES HIGHER THAN FLASHING POINT CONTAINER IS NOT DESIGNED FOR HIGH PRESSURE. DO NOT APPLY PRESSURE WHILE POURING, THIS COULD BREAK CONTAINER WITH EXPLOSIVE STRENGTH.

SECTION 11: TOXICOLOGICAL INFO

EFFECTS ON EYES:	RISK FOR EYE IRRITATION BASED ON INFO FOR SIMILAR MATERIALS.
EFFECTS ON SKIN:	THE RISK FOR SKIN IRRITATION IS BASED ON INFO FOR SIMILAR MATERIALS.
ACUTE ORAL EFFECT:	THE ACUTE ORAL TOXICITY IS BASED ON INFO FOR SIMILAR MATERIALS.
ACUTE INHALATION EFFECTS:	THE ACUTE INHALATION TOXICITY BASED ON INFO FOR SIMILAR MATERIALS.
ADDITIONAL TOXICOLOGICAL INFORMATION:	THIS PRODUCT CONTAINS MINERAL BASE OR SYNTHETIC OIL. THESE HAVEN'T BEEN CONSIDERED CAUSE FOR CANCER BY OSHA COMMUNICATION RISK NORM (29 CFR 1910.1200), THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OR THE NATIONAL TOXICOLOGY PROGRAM (NTP).



SECTION 12: ENVIRONMENTAL INFORMATION

ECOTOXICITY:	AVAILABLE INFO REGARDING ECOTOXICITY STATES THAT SIDE EFFECTS ARE NOT EXPECTED IN AQUATIC ORGANISMS. ALWAYS KEEP OIL CONTAINED TO AVOID WATER SOURCE, SEWER AND DRAIN POLLUTION.
ENVIRONMENT:	GIVEN THE LACK OF INFO SPECIFIC TO THE ENVIRONMENT REGARDING THIS PRODUCT. IT IS SUPPORTED BY THE INFO ON REPRESENTATIVE PRODUCTS.

SECTION 13: INFO REGARDING PRODUCT DISPOSAL

REMARKS FOR WASTE:	PLACE WASTE MATERIAL IN A CONTAINER AND DISPOSE OF IT ACCORDINGLY TO LOCAL, REGIONAL, NATIONAL AND INTERNATIONAL NORMS. DO NOT DISPOSE IN WATER SOURCES, DRAINS OR SEWERS.
CONTAMINATED CONTAINERS:	THERE ARE OIL COLLECTING SERVICES. PLACE CONTAMINATED OIL IN CONTAINERS AND DISPOSE THEM ACCORDING TO NORMS AND CURRENT REGULATIONS. CONTACT LOCAL, NATIONAL AND INTERNATIONAL ENVIRONMENTAL AUTHORITIES FOR PROPER DISPOSAL METHOD.

SECTION 14: TRANSPORTATION INFO

TRANSPORTATION NAME:	THIS PRODUCT IS NOT CONSIDERED HAZARDOUS FOR TRANSPORTATION ACCORDING TO CODES UN, IMO.
NOM-002-SCT/2011:	NOT DEFINED BY THIS NORM.
NOM-004-SCT/2008:	NO REGULATED BY THIS NORM.
DOT (DEPT. OF TRANSPORT, USA):	NOT REGULATED FOR BULK TRANSPORT BY LAND.
TDG: RID/ADR	NOT REGULATED FOR RAIL BULK TRANSPORT.
TDG: RID/ADR	NOT REGULATED FOR BULK TRANSPORT BY LAND.
IMO, IMDG:	NOT REGULATED FOR BULK TRANSPORT BY SEA.
ICAO, IATA:	NOT REGULATED FOR BULK TRANSPORT BY AIR.

SECTION 15: INFO REGARDING REGULATIONS

NOM-018-STPS-2000:	RISK SYSTEM DUE TO CHEMICAL SUBSTANCES IN THE WORK CENTER.
NOM-010-STPS-1999:	SASFETY AND HYGIENE CONDITIONS IN THE WORK CENTER WHERE CHEMICAL MATERIALS ARE HANDLED, TRANSPORTED, PROCESSED OR STORED. THIS MATERIAL IS CAPABLE OF GENERATING POLLUTION IN THE WORK ENVIRONMENT.
NOM-004-SCT-2008:	SYSTEMS OF IDENTIFICATION OF UNITS DESIGNATED FOR THE TRANSPORT OF HAZARDOUS SUBSTANCES, MATERIALS AND WASTE.

SECTION 16: OTHER INFO

DEFINITIONS	
N/A:	NOT APPLICABLE.
N/D:	NO DATA AVAILABLE
OSHA:	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION.
ACGIH:	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.
TLV:	THRESHOLD LIMIT VALUE
SDS:	SAFETY DATA SHEET.
CFR:	CODE OF FEDERAL REGULATIONS.
PEL	PERMISSIBLE EXPOSURE LIMITS.
IMO	INTERNATIONAL MARITIME ORGANIZATION (IMDG: INTERNATIONAL MARITIME CODE OF DANGEROUS GOODS).
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.



SECTION 16: OTHER INFO (CONTINUED)

IATA:	INTERNATIONAL AIR TRANSPORT ASSOCIATION
ADR:	AGREEMENT FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD.
RID:	INTERNATIONAL REGULATIONS CONCERNING THE TRANSPORT OF DANGEROUS GOODS BY TRAIN.
REACH:	REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS
IARC:	INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

THE INFO PRESENTED ON THIS DESCRIPTIVE SHEET WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY PRECISE AND TRUSTED. ALBEIT EFFORTS TO DISCLOSE ALL PRODUCT RISKS, IN SOME CASES THERE'S INFO LACKING, AND IF SO, IT IS STATED. HOWEVER, EXPRESSED OR IMPLICIT WARRANTY IS NOT OFFERED REGARDING THE ACCURACY OF THIS DATA AND RESULTS OBTAINED WHILE USING IT. THIS INFO REFERS ONLY TO THE SPECIFIED MATERIAL AND IT IS NOT VALID IF USE IN COMBINATION WITH OTHER MATERIALS, OR ANY PROCESS DIFFERENT TO THE ONE INSTRUCTED.

29 CFR 1910.1200 (OSHA HAZCOM 2012)
PERSONAL PROTECTIVE EQUIPMENT
IDENTIFICATION WORD: C



PROTECTIVE
GLASSES

PROTECTIVE
GLOVES

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