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MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:	**RBCL T-2 (ALL GRADES)**
CHEMICAL NAME:	Highly Refined Mineral Oil, Alkaline Metal Carboxylates, & Additives
CAS #:	MIXTURE
PRODUCT CATEGORY:	LUBRICATING GREASE
MSDS CODE:	RBCL T2
FIRST Issued:	11/19/2007
REVISED:	09/19/2009
24-HR COMPANY PERSONNEL:	PERSONAL: (714) 227-1379
RBCL QA:	(714) 841-3007

II. COMPONENTS AND HAZARD INFORMATION

PRODUCT	CAS NO. OF COMPONENTS	
MINERAL OIL(S)	CAS# 64742-54-7	64.0%
Calcium SulfonateComplex Thickener	COMPOUND MIXTURE	< 30.0%
Benzenesulfonic Acid, Dodecyl, Calcium Salt	26264-06-2	< 3.0%
PROPRIETARY ADDITIVES	MIXTURE	< 3.0%

PLEASE NOTE THAT THE CHEMICAL IDENTITY OF SOME OR ALL OF THE ABOVE HAZARDOUS INGREDIAENTS IS CONFIDENTIAL INFORMATION AND MAY BE WITHHELD AS PERMITTED BY 29CFR 1910.1200 AND VARIOUS STATE RIGHT TO KNOW LAWS.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS): NATIONAL Fire Protection Agency (NFPA)

HEALTH	FLAMMABILITY	REACTIVITY	Health	Flammability	Reactivity	Protection
1	1	0	1	1	0	B

EXPOSURE LIMITS:

OIL MIST: ACGIH:TLV/TWA – 5 MG/M3, TLV/STEL – 100MG/M3
OSHA: PEL/TWA – 5 MG/M3, PEL/CEILING – NONE

III. HEALTH AND HAZARD INFORMATION

VARIABLE AMONG INDIVIDUALS:
HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM HYDROCARBONS AND SYNTHETIC LUBRICANTS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. AS A PRECAUSTION, EXPOSURE TO GREASES, LIQUIDS, VAPORS, MISTS OR FUMES SHOULD BE MINIMIZED.
EFFECTS OF OVEREXPOSURE (SIGNS AND SYMPTONS OF EXPOSURE):
SKIN:
THIS MATERIAL MAY BE SLIGHTLY IRRITATING TO THE SKIN IRRITATION AND/OR ALLERGIC SKIN REACTION. PROLONGED AND REPEATED CONTACT MAY LEAD TO VARIOUS SKIN DISORDERS SUCH AS DERMTITIS, OIL ACNE, OR FOLLICULITIS. PERSON WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL. BASED ON DATA FROM COMPONENTS OR SIMILAR MATERIALS.
EYE:
THIS PRODUCT MAY CAUSE MILD EYE IRRITATION. DIRECT EXPOSURE TO VAPORS MAY CAUSE STINGING, TEARING AND REDNESS. MAY AGGRAVATE EXISTING CONJUNCTIVITIS OF THE EYE, BASED ON DATA FROM COMPONENTS OR SIMILAR MATERIALS.

III. HEALTH AND HAZARD INFORMATION (continued)

INGESTION:
INGESTION VIA MINOR CONTAMINATION ON FINGERS OR FOOD IS NOT LIKELY TO CAUSE SIGNIFICANT DISCOMFORT OR ADVERSE AFFECTS. GROSS AMOUNTS MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT (DUE TO PRODUCT CONSISTENCY), NAUSEA AND VOMITING. ASPIRATION INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVE PULMONARY INJURY.

RESPIRATORY:
INHILATION OF VAPORS OR MISTS MAY BE HARMFUL.PURPOSELY BREATHING HIGH CONCENTRATIONS OF THE HEATED VAPORS MAY CAUSE LIGHT-HEADEDNESS AND NAUSEA, IRRITATE MUCOSAL MEMBRANES OF MOUTH, NOSE, AND THROAT; AND AGGRAVATE EXISTING RESPIRATORY DIEASES.

IV. PRIMARY ROUTES OF ENTRY/EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: YES
IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER OR AT LEAST 15 MINUTES WHILE HOLDING EYLIDS OPEN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS OR DEVELOPS.

SKIN: UNLIKELY TO BE ABSORBED UNDER NORMAL CONDITIONS OF USE.
IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINTED CLOTHING AND WIPE EXCESS OFF. WASH SKIN WITH SOAP AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND WATER. LAUNDER OR DRY-CLEAN CLOTHING BEFORE REUSE AND DISCARD SHOES AND OTHER LEATHER ARTICLES SATURATED WITH THE MATERIAL. GET MEDICAL ATTENTION IF IRRITATION PERSISTS OR DEVELOPS.

INGESTION: YES BUT VERY UNLIKELY
DO NOT INDUCE VOMITING, BECAUSE MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE DAMAGE. SLOWLY DRINK 8 TO 12 OUNCES OF WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS, OR IF COMATOSE OR LETHARGIC, PLACE ON THE LEFT SIDE WITHT THE HEAD DOWN. SEEK IMMEDIATE MEDICAL ATTENTION AND TREAT FOR GASTRIC DISTRESS.

V. FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT: 275 DEG. CELCIUS (527 DEG. F) COC (MIN).
UPPER FLAMMABILITY LIMIT: NOT DETERMINED
LOWER FLAMMABILITY LIMIT: NOT DETERMINED

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:
CARBON DIOXIDE, CHEMICAL, FOAM OR WATER FOG. WATER SPRAY CAN BE USED TO COOL AND PROTECT CONTAINERS EXPOSED TO HEAT AND FLAME. TREAT AS OIL FIRE. PRODUCT WILL FLOAT ON SURFACE OF WATER.

SPECIAL FIREFIGHTING PROCEDURES: RECOMMEND WEARING POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. DO NOT ENTER CONFINED FIRE-SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS). TOXIC FUMES, GASES OR VAPORS MAY EVOLVE ON BURNING. VAPORS MAY BE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND TO A DISTANT IGNITIION SOURCE AND FLASH BACK.

UNSUAL FIRE & EXPOSURE HAZARDS: SLIGHTLY COMBUSTIBLE WHEN HEATED ABOVE FLASH POINT. WILL RELEASE FLAMMABLE VAPORS WHICH CAN BURN IN OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO IGNITION.

FUMES, SMOKE, CARBON MONO & DIOXIDE AND OTHER PRODUCTS OF INCOMPLETE COMBUSION. OXIDES OF CALCIUM, ZINC, NITROGEN, PHOSPHORUS, AND SULFUR MAY BE FORMED.

VI. ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE SOURCES OF IGNITION. IMMOBILIZE WITH DRY ABSORBENT. MINIMIZE SKIN CONTACT. KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. DUE TO THE HEAVY METAL ANTIMONY POWDER CONTENT, IMMEDIATELY ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES, OR EXTENSIVE LAND AREAS. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

WASTE DISPOSAL:
WASTE DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS. MATERIAL, IF DISCARDED, IS EXPECTED TO BE HAZARDOUS WASTE UNDER RCRA.

VII. HANDLING AND STORAGE

STORE IN COOL DRY LOCATION. KEEP AWAY FROM POTENTIAL SOURCES IF IGNITION. KEEP AWAY FROM INCOMPATIBLE MATERIALS. AVOID BREATHING VAPORS, OR PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. REMOVE ANY CONTAMINTED CLOTHING AND LAUNDER BEFORE REUSE.

"EMPTY: CONTAINER WARNING:
"EMPTY" CONTAINERS RETAIN RESIDUE (SEMI-SOLID, LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. DO NOT ATTEMPT TO CLEAN SINCE RESIDUE IS DIFFICULT TO REMOVE. "EMPTY" DRUMS RECONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIROMENTALLY SAVE MANNER AND IN ACCORDANCE WITH GOVERNMETNAL REGULATIONS.

VIII. PROTECTION AND PRECAUTIONS:

VENTILATION:
PROVIDE VENTILATION SUFFICIENT TO PREVENT EXCEEDING RECOMMENDED EXPOSURE LIMIT, USE LOCAL OR MECHANICAL EXHAUST TO CAPTURE VAPOR OR FUMES, IF NECESSARY. NO SMOKING, FLAME OR OTHER IGNITION SOURCES.

RESPIRATORY PROTECTION:
UNDER NORMAL USE CONDITIONS, RESPIRATOR IS NOT REQUIRED. USE NIOSH/MSHA APPROVED DISPOSABLE DUST/MIST MASK OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES IF THE RECOMMENDED EXPOSURE LIMIT IS EXCEEDED, USE SELF-CONTAINED BREATHING APPRATUS FOR ENTRY INTO CONFINED SPACE, FOR OTHER POORLY VENTILATED AREAS AND FOR LARGE SPILL CLEAN-UP SITES.

PROTECTIVE GLOVES:
USE CHEMICAL RESISTANT (HIGH NITRILE) GLOVES TO AVOID PROLONGED OR REPEATED SKIN CONTACT

EYE PROTECTION:
USE SPLASH GOGGLES OR FACE SHIELD WHEN EY CONTACT MAY OCCUR.

OTHER PROTECTIVE EQUIPMENT:
USE CHEMICAL RESISTANT BOOTS AND APRONS OR OTHER IMPERVIOUS CLOTHING, IF NEEDED, TO AVOID CONTAMINATING REGULAR CLOTHING, LONG SLEEVE SHIRTS IS RECOMMENDED.

WORK PRACTICES:
KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS.

PERSONAL HYGIENE:
MINIMIZE BREATHING VAPOR OR FUMES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. REMOVE CONTAMINATED CLOTHING; LAUNDER BEFORE REUSE. REMOVE CONTAIMINATED SHOES AND THOROUGHLY CLEAN BEFORE RE-USE; DISCARD IF OIL-SOAKED. CLEANSE SKIN THOROUGHLY AFTER CONTACT. BEFORE BREAKS AND MEALS, AND AT END OF WORK PERIOD.

IX. PHYSICAL DATA

SPECIFIC GRAVITY: 0.96 – 0.98 @ 15.6 deg C/15.6 deg C	VAPOR PRESSURE: NEGLIGIBLE AT AMBIENT
% VOLATILE NEGLIGIBLE	VAPOR DENSITY (AIR = 1) NOT APPLICABLE
SOLUBILITY IN WATER: NIL	EVAPORATION RATE (n-BUTYL ACETATE = 1) NEGLIGIBLE
ODOR: PETROLEUM OIL ODOR	APPEARANCE: SEMI-SOLID/PASTE CONSISTENCY-GREY COLOR

X. REACTIVITY

STABILITY:	STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
AVOID CONTACT WITH:	STRONG OXIDIZING OR REDUCING AGENTS

XI. ENVIRONMENTAL INFORMATION

REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA SECTION 102): NONE

SARA TITLE III:
SECTION 313 REPORTABLE INGREDIENTS: NO
THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENT(s) WHICH ARE LISTED UNDER SARA SECTION 313 AT OR ABOVE THE DEMINIMIS CONCENTRATION LEVELS: NONE
SECTION 311/312 : NONE

CALIFORNIA PROP 65:
THIS MATERIAL IS NOT MANUFACTURED TO CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

XII. TRANSPORTATION

DOT PROPER SHIPPING NAME:	NON HAZARDOUS LUBRICATING GREASE – CLASS 65
DOT HAZARD CLASS:	NOT REGULATED
DOT UN NUMBER:	NOT APPLICABLE

XIII. OTHER INFORMATION (US CHEMICAL INVENTORY STATUS)

ALL COMPONENTS OF THIS PRODUCT IS EXEMPT FROM THE US TSCA INVENTORIES LISTING.

THE INFORMATION AND RECOMMENDATIONS HEREIN ARE, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ARE ACCURATE AND RELEABLE AS FO THE DATE ISSUED. TOMLIN SCIENTIFIC, INC. DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY OR RELIABILITY, AND SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING OUT OF THE USE THEREOF. THE INFORMATION AND RECOMMENDATIONS ARE OFFERED FOR THE USER'S CONSIDERATION AND EXAMINATION, AND IT IS THE USER'S RESPONSIBILITY TO SATISFY ITSELF THAT THEY ARE SUITABLE AND COMPLETE FOR ITS PARTICULAR USE. IF BUYER REPACKAGES THIS PRODUCT, LEGAL COUNSEL SHOULD BE CONSULTED TO INSURE PROPER HEALTH, SAFETY AND OTHER NECESSARY INFORMATION IS INCLUDED ON THE CONTAINER.

PREPARED BY: Tom Parsons
DATE: April 27, 2011