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SAFETY DATA SHEET

RED HV LS EP (ALL GRADES) (MC 2410HV - MC 2411HV - MC 2412HV)

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product name RED HV LS EP (ALL GRADES) (MC 2410HV - MC 2411HV - MC 2412HV)

Product number 320080, 323920, 323960, 325180, 325190

Applications Lubricating Grease

Supplier Metalcote Division of Chemtool Inc.
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Date of last issue 2006-09-05

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC no.	CAS no.	Content	Symbol	R-phrases
Distillates (petroleum), solvent-refined heavy naphthenic	265-097-6	64741-96-4	50-70	-	
Residual oils (petroleum), solvent deasphalted	265-096-0	64741-95-3	10-30	-	
lithium 12-hydroxystearate	231-536-5	7620-77-1	5-12	-	
Limestone	215-279-6	1317-65-3	1-5	-	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	272-028-3	68649-42-3	0.5-1.5	Xi	R-38, 41

See section 16 for explanations of R-phrases

Composition comments Refer to section eight for exposure limits on ingredients.

3. HAZARDS IDENTIFICATION

Hazards Not regarded as a health hazard under current legislation.

4. FIRST AID MEASURES

Inhalation Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen could be necessary. Get medical attention if any discomfort continues.

Ingestion DO NOT INDUCE VOMITING! Get medical attention immediately!

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eyes Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.

5. FIRE FIGHTING MEASURES

Extinguishing media Use: Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.

Special fire fighting procedures Use water to keep fire-exposed containers cool and disperse vapours. Water spray could be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

Specific hazards Pressure will increase in over heated, closed containers.

Hazardous combustion products Acrid smoke/fumes. Oxides of: Carbon. Sulphur.

Protective measures in the event of fire Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

Personal protection Minimize skin contact.

Environmental protection Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

Spill clean-up methods Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbant material. Avoid discharge to natural water ways.

7. HANDLING AND STORAGE

Usage precautions Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact.

Storage precautions Store separate from strong acids and oxidizers. Keep away from heat, sparks and open

flame.

Storage criteria

Storage of chemicals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Ingredient name	CAS No.	Reference	LT Exp 8 Hrs	ST Exp 15 Min
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	NOHSC	5 mg/m3 (Oil mist)	No std.
Limestone	1317-65-3	NOHSC	10 (a) mg/m3 resp.dust	No std.

Ingredient information

**NOHSC (a): This value is for inspirable dust containing no asbestos and < 1% crystalline silica.

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Ventilation

No specific ventilation requirements noted, but forced ventilation could still be required if air contamination exceeds acceptable level.

Respirators

No specific recommendation made, but respiratory protection could still be required under exceptional circumstances when excessive air contamination exists.

Protective gloves

Chemical resistant gloves recommended to prevent prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. or latex.

Eye protection

Use eye protection.

Other Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygienic work practices

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grease.		
Colour	Amber.		
Odour	Mild (or faint). Petroleum.		
Solubility description	Insoluble in water.		
Density (g/ml)	0.90	Temperature (°C)	15.6 (60°F)
Vapour density (air=1)	> 5		
Vapour pressure	< 0.1 mmHg	Temperature (°C)	20 (68°F)

Evaporation rate	< 1	Reference	BuAc=1
Flash point (°C)	224 (435°F)	Method	Cd OC (Cleveland open cup).
Flammability limit (%)	N/D - N/D		

10. STABILITY AND REACTIVITY

Stability	Normally stable.
Conditions to avoid	Avoid contact with acids and oxidizers.
Hazardous polymerization	Will not occur.
Polymerization description	Not applicable.
Hazardous decomposition products	Oxides of: Carbon. Sulphur.

11. TOXICOLOGICAL INFORMATION

Sensitization	No known information.
Carcinogenicity	IARC Not Listed. OSHA Not Regulated. NTP Not Listed.
Reproductive toxicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
Health warnings	INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Prolonged or repeated contact leads to drying of skin. EYE CONTACT. Slightly irritating. INGESTION. Could cause Stomach ache or vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
Route of entry	Inhalation. Skin and/or eye contact. Ingestion.
COMPONENT:	Distillates (petroleum), solvent-refined heavy naphthenic
Toxicological data	Carcinogenicity. IP 346 1.2-2.93%
Toxic dose - LD50:	No Information Available (NIA).
Toxic conc. - LC50:	No Information Available (NIA).
Carcinogenicity	Base oils in this product contain < 3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346.
COMPONENT:	Residual oils (petroleum), solvent deasphalted
Toxicological data	Carcinogenicity. IP 346 1.7-2.0% Calumet 2004-2006
Toxic dose - LD50:	> 5000 mg/kg (oral rat)
Toxic dose - LD50 (skin):	> 2000 mg/kg (skin rabbit)
Toxic conc. - LC50:	n/a.
Carcinogenicity	The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200. Statement equivalent to <3% IP 346.

COMPONENT: lithium 12-hydroxystearate

Toxic dose - LD50: No Information Available (NIA).

Toxic conc. - LC50: No Information Available (NIA).

COMPONENT: Limestone

Toxic dose - LD50: No Information Available (NIA).

Toxic conc. - LC50: No Information Available (NIA).

COMPONENT: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Toxic dose - LD50: 4739 mg/kg (oral rat)

Toxic dose - LD50 (skin): > 2000 mg/kg (skin rabbit)

12. ECOLOGICAL INFORMATION

Ecotoxicity There is no ecological data on the product itself.

13. DISPOSAL CONSIDERATIONS

Disposal methods Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

SEA TRANSPORT (IMDG):

Sea transport notes Not regulated per IMDG.

AIR TRANSPORT (IATA/ICAO):

Air transport notes Not regulated per IATA.

TDGR class Not Regulated.

15. REGULATORY INFORMATION

HAZARD LABELLING:

Risk phrases R-20 Harmful by inhalation.
R-21 Harmful in contact with skin.
R-36 Irritating to eyes.
R-37 Irritating to respiratory system.

R-38 Irritating to skin.

INVENTORIES:

CANADA (DSL)	All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.
EUROPE (EINECS/ELNICS/NLP)	All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.
JAPAN (ENCS)	All components in this product are listed on the Japan Inventory of Existing and New Chemical Substances (ENCS) or are exempt from ENCS requirements.
USA (TSCA)	All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.
AUSTRALIA (AICS)	All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.
KOREA (ECL)	All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.

16. OTHER INFORMATION

Explanations to R-phrases in section 2 Contains < 3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346. Classification per manufacturer. Not classified. R-38 Irritating to skin. R-41 Risk of serious damage to eye.

* Information revised since the previous version of the SDS

Revision comments Section 11: Toxicological Information
Section 15: WHMIS

Issued by James W. Hermann Maria Maka

Replacement of SDS generated 2006-09-24

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Disclaimer While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.

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