



Material Safety Data Sheet

Anderol 95 HV-EP-1

1. Product and company identification

Common name	: Anderol 95 HV-EP-1	Supplier/Manufacturer
MSDS#	: AC1115	Anderol Canada Corp.
Material use	: Lubricant.	700 Third Line
In case of emergency	: CANUTEC (613) 996-6666 (Canada) CHEMTREC: 800-424-9300 (United States)	Oakville, ONT
MSDS authored by:	: Kemika XXI Inc. + 1-450-435-7475	Canada L6J 5A3
Date of issue	: 06/15/2006	Tel: (905) 827-9087
		Fax: (905) 827-2862

2. Hazards identification

Physical state	: Semi-solid (grease).
Odor	: Mild.
Color	: Brown.
Hazard status	: This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada, the NOM-018-STPS-2000 in Mexico and Brazil NBR 14725:2001.
Emergency overview	: WARNING! CAUSES EYE AND SKIN IRRITATION. Avoid contact with skin and clothing. Wash thoroughly after handling.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: Irritating to eyes.
Skin	: Irritating to skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Potential chronic health effects	: Carcinogenic effects: Not applicable. Mutagenic effects: Not applicable. Teratogenic effects: Not applicable.
Medical conditions aggravated by over-exposure	: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated exposure of the eyes to a low level of dust can produce eye irritation.

See toxicological information (section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30 - 60
Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic	64742-65-0	10 - 30
Residual Oils (Petroleum), Solvent-Dewaxed	64742-62-7	10 - 30
Calcium dodecylbenzene sulfonate	26264-06-2	1 - 5

Canada

Name	CAS number	%
Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic	64742-65-0	10 - 30
Residual Oils (Petroleum), Solvent-Dewaxed	64742-62-7	10 - 30
Calcium dodecylbenzene sulfonate	26264-06-2	1 - 5

Mexico

Name	UN number	IDLH	Classification				CAS number	%
			H	F	R	Special		
Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic	Not regulated.	-	0	1	0		64742-65-0	10 - 30
Residual Oils (Petroleum), Solvent-Dewaxed	Not regulated.	-	0	1	0		64742-62-7	10 - 30
Calcium dodecylbenzene sulfonate	Not regulated.	-	1	1	0		26264-06-2	1 - 5

Brazil

Name	CAS number	%
Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic	64742-65-0	10 - 30
Residual Oils (Petroleum), Solvent-Dewaxed	64742-62-7	10 - 30
Calcium dodecylbenzene sulfonate	26264-06-2	1 - 5

See Sections 8, 11 and 14 for details.

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs.
- Skin contact** : Wash with soap and water. Get medical attention if irritation occurs.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : Not available.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

5 . Fire-fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Products of combustion** : The final products of combustion are carbon oxides and water. Nitrogen, sulfur and metal oxides may also be produced in some cases.
- Extinguishing media**
 - Suitable** : Use an extinguishing agent suitable for the surrounding fire.
 - Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

7 . Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

United States

Product name

Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic

Exposure limits

OSHA PEL 1989 (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Residual Oils (Petroleum), Solvent-Dewaxed

ACGIH TLV (United States).

STEL: 10 mg/m³ 8 hour(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

OSHA PEL 1989 (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Canada

Product name

Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic

Exposure limits

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Residual Oils (Petroleum), Solvent-Dewaxed

ACGIH TLV (United States).

STEL: 10 mg/m³ 8 hour(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Mexico

Product name

Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic

Exposure limits

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Residual Oils (Petroleum), Solvent-Dewaxed

ACGIH TLV (United States).

STEL: 10 mg/m³ 8 hour(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Brazil

Product name

Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic

Exposure limits

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Residual Oils (Petroleum), Solvent-Dewaxed

ACGIH TLV (United States).

STEL: 10 mg/m³ 8 hour(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

- Eye protection** : Safety glasses with side shields.
- Skin protection/Body** : Not applicable.
- Respiratory protection** : Not applicable.
- Hand protection.** : Natural rubber (latex).



HMIS Code/Personal protective equipment : B

Personal protection in case of a large spill : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

- Physical state** : Semi-solid (grease).
- Color** : Brown.
- Odor** : Mild.
- Specific gravity** : 1.06 (Water = 1)
- Flash point** : Open cup: 232°C (449.6°F)(Cleveland.).

10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Conditions of instability** : None known.
- Incompatibility with various substances** : Reactive with oxidizing materials.
- Hazardous polymerization** : Will not occur.
- Conditions of reactivity** : None known.

11 . Toxicological information

Product/ingredient name	Toxicity data			Species
	Test	Result	Route	
Calcium dodecylbenzene sulfonate	LD50	3680 mg/kg	Oral	Mouse

Acute Effects

- Eyes** : Irritating to eyes.
- Skin** : Irritating to skin.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Potential chronic health effects** : Carcinogenic effects: Not applicable.
Mutagenic effects: Not applicable.
Teratogenic effects: Not applicable.

12 . Ecological information

- Environmental precautions** : No known significant effects or critical hazards.
- Products of degradation** : The final products of biodegradation are carbon oxides and water. Nitrogen and sulfur oxides and metal salts may also be produced in some cases.
- Toxicity of the products of biodegradation** : The product itself and its products of degradation are not toxic.

13 . Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

14 . Transport information

- NAERG** : Not applicable.
- Regulatory information**
- UN/ IMDG/IATA DOT/ TDG** : Not regulated by any transport mode.

15 . Regulatory information

United States

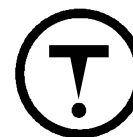
- HCS Classification** : Irritating material
- U.S. Federal regulations** : TSCA 8(b) inventory: All components listed.
- SARA 302/304/311/312 extremely hazardous substances: No products were found.
- SARA 302/304 emergency planning and notification: No products were found.
- SARA 302/304/311/312 hazardous chemicals: Calcium dodecylbenzene sulfonate
- SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Calcium dodecylbenzene sulfonate: Immediate (acute) health hazard
- Clean Water Act (CWA) 307: No products were found.
- Clean Water Act (CWA) 311: Calcium dodecylbenzene sulfonate
- Clean Air Act (CAA) 112 accidental release prevention: No products were found.
- Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
- Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

- State regulations** : Pennsylvania RTK: Calcium dodecylbenzene sulfonate: (environmental hazard, generic environmental hazard); Diphenylamine: (environmental hazard, generic environmental hazard)
- Massachusetts RTK: Calcium dodecylbenzene sulfonate; Diphenylamine
- New Jersey: Calcium dodecylbenzene sulfonate; Diphenylamine
- WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
- In the form used in this product, however, the risk to the end user through normal use of this product is minimal.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Diphenylamine	No.	Yes.	No.	No.

Canada

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

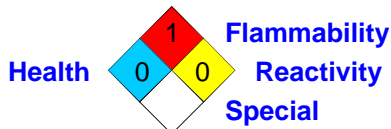


CEPA DSL: All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA, the Mexican NOM -018-STPS-2000 and the Brazilian NBR 14725:2001. This MSDS contains all the information required by the CPR, OSHA, the American National Standard Institute (ANSI) Z400.1, NOM -018-STPS-2000 and NBR 14725:2001.

Mexico

Classification :



HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

International lists : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Label requirements (U.S.A.) : CAUSES EYE AND SKIN IRRITATION.

Hazardous Material Information System (U.S.A.) :

HMIS RATING

Health	0
Fire hazard	1
Physical Hazard	0
Personal protection	B

HAZARD RATINGS

- 4- Extreme
 - 3- Serious
 - 2- Moderate
 - 1- Slight
 - 0- Minimal
- See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.) :



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994. Brazil NBR 14725:2001.

Responsible name : Mr. Max Naggar
Date of issue : 06/15/2006
Version : 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.