

Material Safety Data Sheet

Anderol FR-200

Product and company identification

: Anderol FR-200 **Common name**

MSDS# AC1030 **Material use** Lubricant.

In case of emergency : CANUTEC (613) 996-6666 (Canada)

CHEMTREC: 800-424-9300 (United States)

: Kemika XXI Inc. + 1-450-435-7475 MSDS authored by:

: 05/31/2006 **Date of issue**

Supplier/Manufacturer

Anderol Canada Corp. 700 Third Line Oakville, ONT Canada L6J 5A3 Tel: (905) 827-9087

Fax: (905) 827-2862

Hazards identification

Physical state : Liquid. Odor : Mild. Color Reddish

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!

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:

KIDNEYS, LIVER, SKIN, EYE, LENS OR CORNEA.

Avoid contact with eyes, skin and clothing.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes No known significant effects or critical hazards. Skin No known significant effects or critical hazards. : No known significant effects or critical hazards. Inhalation 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 or prolonged exposure to the substance can produce target organ damage.

See toxicological information (section 11)

3 Composition/information on ingredients

United States

Name CAS number % 40 - 60 Diethylene Glycol 111-46-6

Mexico

Classification

Name UN number IDLH Special CAS number %

Diethylene Glycol 0 111-46-6 40 - 60 Not 1

regulated.

See Sections 8, 11 and 14 for details.

: 05/31/2006 Page: 1/5 Date of issue



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

equipment for fire-fighters

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards: No specific hazard.

Special protective : Fire-fighters should wear appropriate protective equipment and self

: 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, contain spilled material. For small spills, add

absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Place spilled material in an appropriate container for disposal.

7. Handling and storage

Handling: 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 Exposure limits

Diethylene Glycol AIHA WEEL (United States, 1/2004).

TWA: 10 mg/m³ 8 hour(s). Form: All forms. TWA: 10 mg/m³ 8 hour(s). Form: All forms

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 Respiratory protection : Not applicable.: Not applicable.

Hand protection.

: Natural rubber (latex).





HMIS Code/Personal protective equipment

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

: B

Physical state : Liquid.

Color : Reddish
Odor : Mild.

Specific gravity : 1.28 (Water = 1)

Flash point : Closed cup: Higher than 93.3°C (200°F) (Pensky-Martens.)

10. Stability and reactivity

Stability and reactivity

: The product is stable.

Conditions of instability

None known.

Incompatibility with various: Reactive with oxidizing materials.

5

substances

: Will not occur.

Hazardous polymerization : Conditions of reactivity :

: None known.

11. Toxicological information

Toxicity data				
Product/ingredient name	Test	Result	Route	Species
Diethylene Glycol	LD50 LD50 LD50	12565 mg/kg 4400 mg/kg 11890 mg/kg	Oral Oral Dermal	Rat Rabbit Rabbit

Acute Effects

Eyes : No known significant effects or critical hazards.
 Skin : No known significant effects or critical hazards.
 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.

Target organs

: Contains material which causes damage to the following organs: kidneys, liver, skin, eye,

lens or cornea.



12. Ecological information

Ecotoxicity data Product/ingredient name **Species Period** Result Diethylene Glycol Pimephales promelas (LC50) 96 hour(s) 75200 mg/l

Environmental precautions Products of degradation

: No known significant effects or critical hazards.

: 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 products of degradation are less toxic than the product itself.

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 : Target organ effects

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: Diethylene Glycol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Diethylene

Glycol: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

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: Diethylene Glycol: (generic environmental hazard)

California prop. 65: No products were found.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

CEPA DSL: All components listed.

Page: 4/5 : 05/31/2006 Date of issue



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.) : CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LIVER, SKIN, EYE, LENS OR CORNEA.

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



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 05/31/2006 Date of issue : 05/31/2005 Date of previous issue : 3

Version

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.

Authored by **KEMIKA**



: 05/31/2006 Page: 5/5 Date of issue