

Material Safety Data Sheet ROYCO 46, 46TF

Product and company identification

: ROYCO 46, 46TF Common name

MSDS# AC1087

MILSPEC# Mil-L-46000; Mil-L-46150

Material use Lubricant.

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

CHEMTREC: 800-424-9300 (United States)

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

: 03/31/2006 Date of issue

Supplier/Manufacturer

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

Fax: (905) 827-2862

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Hazards identification

Physical state : Liquid. Odor Slight. Color Beige.

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 SEVERE EYE IRRITATION.

CAUSES SKIN IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Avoid contact with skin and clothing. Wash thoroughly after handling.

Routes of entry Skin contact. Eye contact. Ingestion.

Potential acute health effects

: Severely irritating to eyes. **Eyes**

Skin : Irritating to skin.

Inhalation No known significant effects or critical hazards.

May be harmful if swallowed. Ingestion

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 or prolonged contact with spray or mist may produce chronic eye irritation and severe skin

See toxicological information (section 11)

Phosphonic Acid, Bis(1-Methylethyl) Ester

Composition/information on ingredients

United States

Name CAS number % Phosphonic Acid, Bis(1-Methylethyl) Ester 1809-20-7 1 - 5

Canada

Name CAS number % 1809-20-7

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Mexico

Classification

Name UN number IDLH F R Special **CAS** number %

Phosphonic Acid, Bis Not 1 2 0 1809-20-7 1 - 5

(1-Methylethyl) Ester regulated.

Brazil

Name **CAS** number %

1809-20-7 Phosphonic Acid, Bis(1-Methylethyl) Ester 1 - 5

See Sections 8, 11 and 14 for details.

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.

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms appear.

: 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.

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

Inhalation

Ingestion

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-contained breathing equipment for fire-fighters

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions : Avoid dispersal of spilled material and 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.

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Handling and storage

Handling Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

: Keep container tightly closed. Keep container in a cool, well-ventilated area. **Storage**

Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

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

: Safety glasses with side shields. **Eye protection**

Skin protection/Body : Not applicable. **Respiratory protection** : Not applicable.

: Natural rubber (latex). Hand protection.





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 NIOSHapproved 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.

Physical and chemical properties

Physical state : Liquid. Color Beige. Odor : Slight.

Specific gravity : 0.92 (Water = 1)

: Open cup: >145°C (293°F)(Cleveland.). Flash point

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

Toxicity data				
Product/ingredient name	Test	Result	Route	Species
Phosphonic Acid, Bis(1-Methylethyl) Ester	LD50 LD50 LD50	1700 mg/kg 1590 mg/kg 5700 mg/kg	Oral Oral Dermal	Rat Mouse Rabbit

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Acute Effects

Eyes : Severely irritating to eyes.

Skin : Irritating to skin.

Inhalation: No known significant effects or critical hazards.

Ingestion : May be harmful if swallowed.

Potential chronic health :

effects

Carcinogenic effects: Not applicable.
 Mutagenic effects: Not applicable.
 Teratogenic effects: Not applicable.

12. Ecological information

Environmental precautions

Octanol/water partition

coefficient

No known significant effects or critical hazards.The product is more soluble in octanol.

Bioconcentration factor

: Not available.

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 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 and 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 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: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products

were found.

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: Naphthalenesulfonic Acid, Dinonyl-, Barium Salt: (environmental hazard, generic environmental hazard); 2,6-Ditert-butyl-p-cresol: (generic environmental hazard); N,N-bis(2-Ethylhexyl)-ar-methyl-1H-Benzotriazole-1-methanamine; Di(2-

Ethyhexyl) Amine: (generic environmental hazard)

Massachusetts RTK: 2,6-Ditert-butyl-p-cresol; Di(2-Ethyhexyl) Amine

New Jersey: Naphthalenesulfonic Acid, Dinonyl-, Barium Salt; 2,6-Ditert-butyl-p-cresol; N,N-bis(2-Ethylhexyl)-ar-methyl-1H-Benzotriazole-1-methanamine; Di(2-Ethyhexyl)

Amine

California prop. 65: No products were found.

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 SEVERE EYE IRRITATION.

CAUSES SKIN IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

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

HMIS RATING

Health

Fire hazard

Physical Hazard

Personal protection

C

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
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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**

