

Material Safety Data Sheet ROYCO 22CF

1. Product and company identification

Product name : ROYCO 22CF

Material uses : Lubricant.

Supplier/Manufacturer : Chemtura Canada Co. / Cie

700 Third Line Oakville, ONT Canada L6J 5A3 Tel: (905) 827-9087 Fax: (905) 827-2862

MSDS # : AC1079

MILSPEC# : MIL-PRF-81322 GR. 2

Validation date : 07/31/2007

MSDS authored by: : Atrion Regulatory Services, Inc.

In case of emergency : CHEMTREC: 800-424-9300 (United States)

CANUTEC (613) 996-6666 (Canada)

2. Hazards identification

Physical state : Semi-solid (grease).

Odor : Odorless.

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. CONTAINS MATERIAL THAT CAN CAUSE

TARGET ORGAN DAMAGE.

Irritating to eyes and skin. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Contains material that can cause target

organ damage. Wash thoroughly after handling.

Since the product is in paste form, the risk of exposure to a carcinogen dust is minimum, this is why the related hazard statements are not shown in this MSDS. If material is to be dried and sanded by users, the risk of inhalation of dust containing a

carcinogen dust will be increased, together with the risk of cancer hazard.

Routes of entry : Skin contact. Eye contact. Ingestion.

Potential acute health effects

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Ingestion : No known significant effects or critical hazards.

Skin : Irritating to skin.

Eyes : Irritating to eyes.

Potential chronic health effects

Chronic effects : Contains material that can cause target organ damage.

Carcinogenicity: See above.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Over-exposure signs/symptoms



2. Hazards identification

Inhalation

: No specific data.

Ingestion

: No specific data.

Skin

: Adverse symptoms may include the following:

irritation redness

Eyes

: Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by overexposure : 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

	Un	ited Sta	tes					
Name							CAS number	%
Sodium nitrite							7632-00-0	1 - 5
		Canada	<u> </u>					
Name							CAS number	%
Sodium nitrite							7632-00-0	1 - 5
		Mexico						
	Classification							
Name	UN number	IDLH	Н	F	R	Special	CAS number	%
Sodium nitrite	UN1500	-	2	0	2	OX	7632-00-0	1 - 5
		Brazil						
Name							CAS number	%
Sodium nitrite							7632-00-0	1 - 5

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation occurs.

Skin contact Inhalation

- : 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.

Ingestion

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.



Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5 . Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Suitable

Extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products

: The final products of combustion are carbon oxides and water. Nitrogen, sulfur and metal oxides may also be produced in some cases.

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.

Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Date of issue : 07/31/2007 Page: 3/8



Engineering measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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 : B

of a large spill

Personal protection in case: Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear MSHA/NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

Hygiene measures

: 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.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Semi-solid (grease). Color : Brown (Dark.) Odor : Odorless.

Specific gravity : 0.88

Flash point : Open cup: >230°C (446°F) (Cleveland.).

10. Stability and reactivity

Stability and reactivity : The product is stable.

Conditions of instability

: None known.

Incompatibility with various

substances

: Slightly reactive to reactive with acids.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Hazardous polymerization

: Will not occur. **Conditions of reactivity** : None known.

11. Toxicological information

Toxicity data

Product/ingredient name **Test / Route Species** Result

ROYCO 22CF LD50 Oral Rat >2000 mg/kg

Acute Effects

Eyes : Irritating to eyes.

Date of issue : 07/31/2007 Page: 4/8



Skin

: Irritating to skin.

Inhalation

: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Potential chronic health effects

: No known significant effects or critical hazards.

: CARCINOGENIC EFFECTS: Classified 2A (Probable for human.) by IARC [Sodium

nitrite].

MUTAGENIC EFFECTS: Not applicable. **TERATOGENIC EFFECTS**: Not applicable.

12. Ecological information

Environmental effects: No known significant effects or critical hazards.

Ecotoxicity data								
Product/ingredient name	Species	Test	Exposure	Result				
Sodium nitrite	Fish	Mortality	96 hours	Acute LC50 0.19 mg/L				
	Fish	Mortality	96 hours	Acute LC50 0.18 mg/L				
	Fish	Mortality	96 hours	Acute LC50 0.17 mg/L				
	Fish	Mortality	96 hours	Acute LC50 0.15 mg/L				
	Fish	Mortality	96 hours	Acute LC50 0.14 mg/L				
	Fish	Mortality	96 hours	Acute LC50 0.11 mg/L				

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

NAERG : Not applicable.

Regulatory information

UN/ IMDG/ IATA DOT/ TDG: Not regulated.

15. Regulatory information

United States

HCS Classification

: Irritating material Target organ effects

U.S. Federal regulations

: TSCA 5(a)2 final significant rules: Sodium nitrite

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 8(d) H and S data reporting: Sodium nitrite: 1991 TSCA 12(b) annual export notification: Sodium nitrite

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: Sodium nitrite; Calcium acetate SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium nitrite: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health

hazard; Calcium acetate: Delayed (chronic) health hazard

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



Clean Water Act (CWA) 311: Sodium nitrite; Xylene

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.

SARA 313

Product name CAS number Concentration : Sodium nitrite 7632-00-0 1 - 5

Form R - Reporting requirements

Supplier notification : Sodium nitrite 7632-00-0 1 - 5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

: Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

Massachusetts Substances: The following components are listed: Sodium nitrite

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: The following components are listed: Sodium

nitrite

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: The following components are listed: Sodium nitrite

New York Toxic Chemical Release Reporting: None of the components are listed. **Pennsylvania RTK Hazardous Substances**: The following components are listed: Sodium nitrite

Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer. 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	
Silica crystalline, quartz	Yes.	No.	No.	No.	

Canada

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



Canadian lists : CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: The following components are listed: Sodium nitrite Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

Canada inventory : All components are listed or exempted.

Date of issue : 07/31/2007 Page: 6/8



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification

Health 1 0 Reactivity Special

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

HAZARD RATINGS

4- Extreme

3- Serious 2- Moderate

1- Slight 0- Minimal

The Restriction of Hazardous Substances in Electrical and Electronic Equipment (ROHS) Directive (2002/95/EC) : In compliance.

16. Other information

Label requirements

: CAUSES EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

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

Health 1
Flammability 1
Physical hazards 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.

The customer is responsible for determining the PPE code for this material.

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

Health 1 0 Instability
Special

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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Date of issue : 07/31/2007 Page: 7/8



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.

