



SAFETY DATA SHEET

ROYCO 22CF MIL-PRF-81322G

Version: 1.0

Revision Date: 12/05/2014

Print Date: 04/22/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROYCO 22CF MIL-PRF-81322G

Product Use Description: Grease

Company: Manufacturer
Anderol Specialty Lubricants, a division of Chemtura Corporation
215 Merry Lane
East Hanover, NJ
07936
United States of America

Telephone: +1 203-573-4596, Toll Free: +1 888-263-3765

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
: 703-527-3887

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Grease

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

| | |
|--------|----------------|
| Form | viscous liquid |
| Colour | dark brown |
| Odour | slight |

GHS Classification

Skin irritation : Category 2
Eye irritation : Category 2A
Carcinogenicity : Category 1B
Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 3

GHS Label element

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Signal word : **Danger**

Hazard pictograms :



Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Self-ignitable : No data available

Carcinogenicity:

IARC

Group 2A: Probably carcinogenic to humans
sodium nitrite 7632-00-0

Group 2A: Probably carcinogenic to humans



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OSHA

Group 3: Not classifiable as to its carcinogenicity to humans
Solvent naphtha (petroleum), 64742-95-6
light arom.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Known to be human carcinogen

Quartz (SiO₂) 14808-60-7

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

| Chemical Name | CAS-No. | Concentration (%) |
|--|------------|-------------------|
| NJTS-46728100000-0001 | | >= 5 - < 10 % |
| sodium nitrite | 7632-00-0 | >= 1 - < 5 % |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | >= 1 - < 5 % |
| 2-tert-butylphenol | 88-18-6 | >= 1 - < 5 % |
| Quartz (SiO ₂) | 14808-60-7 | >= 0.1 - < 1 % |

SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled
Move to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible.
Get medical attention.
- In case of skin contact : In case of skin contact
Wash off with soap and water.
Remove contaminated clothing and shoes.
Wash contaminated clothing before re-use.
Get medical attention if irritation develops and persists.
- In case of eye contact : In case of eye contact
Flush with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, DO NOT induce vomiting.
Consult a physician if necessary.
- Most important symptoms and effects, both acute and : irritant effects



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delayed
Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Foam
Alcohol-resistant foam
Water mist

Unsuitable extinguishing media : Water

Specific hazards during firefighting : Burning produces noxious and toxic fumes.

Specific extinguishing methods : In the event of fire, cool tanks with water spray.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Do not contaminate water.
Do not flush into surface water or sanitary sewer system.
Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up : Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Keep container closed when not in use.
Ensure all equipment is electrically grounded before beginning transfer operations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : Strong acids and strong bases



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|--|------------|--------------------------------|--|-----------|
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | TWA | 500 ppm 2,000 mg/m ³ | OSHA Z-1 |
| | | TWA | 200 mg/m ³ | ACGIH |
| | | TWA | 400 ppm 1,600 mg/m ³ | OSHA P0 |
| Quartz (SiO ₂) | 14808-60-7 | TWA (total dust) | 30 mg/m ³ / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respirable) | 250 mppcf / %SiO ₂ +5 | OSHA Z-3 |
| | | TWA (respirable) | 10 mg/m ³ / %SiO ₂ +2 | OSHA Z-3 |
| | | TWA (respirable dust) | 0.05 mg/m ³ | NIOSH REL |
| | | TWA (respirable dust fraction) | 0.1 mg/m ³ | OSHA P0 |
| | | TWA (Respirable fraction) | 0.025 mg/m ³ | ACGIH |
| | | | | |

Engineering measures : Use with adequate ventilation.
Local ventilation is needed in the presence of airborne mists.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : not required under normal use
In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection
Remarks : Neoprene gloves

Eye protection : Safety glasses with side-shields
Tightly fitting safety goggles

Skin and body protection : impervious clothing

Hygiene measures : Avoid contact with skin, eyes and clothing.
Provide adequate ventilation.
Do not breathe dust or spray mist.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------------|
| Appearance | : viscous liquid |
| Color | : dark brown |
| Odor | : slight |
| Odour Threshold | : No data available |
| pH | : Not applicable |
| Melting point/range | : No data available |
| Boiling point/boiling range | : Not applicable |
| Evaporation rate | : No data available |
| Flash point | : > 230 °C Method: open cup |
| Auto-flammability | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density | : No data available |
| Relative density | : 0.88 |
| <u>Solubility(ies)</u> | |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : Not applicable |
| Thermal decomposition | : No data available |
| Viscosity | |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |

SECTION 10. STABILITY AND REACTIVITY

| | |
|--------------------|---|
| Reactivity | : No dangerous reaction known under conditions of normal use. |
| Chemical stability | : No decomposition if stored and applied as directed. |



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Possibility of hazardous reactions : Hazardous polymerisation does not occur.
Conditions to avoid : Heat.
Contamination
Incompatible materials : Strong acids and strong bases
Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : Acute toxicity estimate: 2,764 mg/kg
Method: Calculation method

Acute inhalation toxicity (Product) : Acute toxicity estimate: > 10 mg/l
Exposure time: 4 h
Method: Calculation method

Acute dermal toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin irritation
NJTS-46728100000-0001 (Component) : Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

2-tert-butylphenol (Component) : Species: Rabbit
Result: Causes burns.
Method: Draize Test
Exposure time: 4 h

Eye irritation
NJTS-46728100000-0001 (Component) : Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

2-tert-butylphenol (Component) : Species: Rabbit
Result: Severe irritation
Method: Draize Test
Exposure time: 4 h

Sensitisation
NJTS-46728100000-0001 (Component) : Species: Guinea pig
Classification: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406



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Aspiration toxicity (Product) : No aspiration toxicity classification

CMR effects

NJTS-46728100000-0001 : Mutagenicity: Not mutagenic in Ames Test.

(Component)

Quartz (SiO₂) (Component) : Carcinogenicity: Human carcinogen.
Mutagenicity: Animal testing did not show any mutagenic effects.

Further information (Product) : No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:
No data available

Toxicity to daphnia and other : Remarks:
aquatic invertebrates : No data available
(Product)

Toxicity to algae :
NJTS-46728100000-0001 : EbC50: > 100 mg/l
(Component) : Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201

2-tert-butylphenol : EC50: 3.1 mg/l
(Component) : Exposure time: 72 h
Species: Algae

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:
No data available

Mobility (Product) : Remarks:
No data available

Biodegradability (Product) : Result: No data available

Further information on ecology



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Ecotoxicology Assessment

Results of PBT assessment (Product)

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological
information (Product)

: There is no data available for this product.
Harmful to aquatic organisms, may cause long-term adverse
effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of waste material in compliance with all federal, state,
and local regulations.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

ADR

Not dangerous goods

RID

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity



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| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|----------------|-----------|-----------------------|--------------------------------|
| sodium nitrite | 7632-00-0 | 100 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
sodium nitrite 7632-00-0 1.65

US State Regulations

California Prop 65 WARNING! This product contains a chemical known to the State of California to cause cancer.
Quartz (SiO₂) 14808-60-7

The components of this product are reported in the following inventories:

US.TSCA On TSCA Inventory
DSL All components of this product are on the Canadian DSL.
AICS On the inventory, or in compliance with the inventory
NZIoC Not in compliance with the inventory
ENCS Not in compliance with the inventory
KECI On the inventory, or in compliance with the inventory
PICCS On the inventory, or in compliance with the inventory
IECSC On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

| | | |
|-----------------------|---------------------|----------------------|
| <u>Latin America:</u> | Brazil | +55 113 711 9144 |
| | All other countries | +44 (0) 1235 239 670 |
| <u>Mexico:</u> | | +52 555 004 8763 |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to



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the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.