

SAFETY DATA SHEET

ROYCO 756 (MIL-PRF-5606)



Version 3.0 Revision Date: 05/23/2024 SDS Number: 203000019300 Date of last issue: 01/19/2024
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : ROYCO 756 (MIL-PRF-5606)

Product code : 000000000062600581

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
(412) 809-1000
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or
(703) 527-3887 (Outside U.S.A) and mention CCN12916.
Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 4

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Combustible liquid.

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Precautionary Statements : May be fatal if swallowed and enters airways.

Prevention:
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Wear protective gloves/ eye protection/ face protection.

Response:
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
Do NOT induce vomiting.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 50 - < 70
White mineral oil (petroleum)	8042-47-5	>= 30 - < 50
2,6-di-tert-butyl-p-cresol	128-37-0	>= 1 - < 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.
Show this safety data sheet to the doctor in attendance.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.
Get medical attention if symptoms occur.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Continue rinsing eyes during transport to hospital.
Get medical attention if symptoms appear.
- If swallowed : Get medical attention immediately.
Rinse mouth with water.
Do not induce vomiting unless directed to do by medical personnel.
Aspiration hazard if swallowed - can enter lungs and cause damage.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

- Symptoms : Ingestion and/or vomiting may cause aspiration into the lungs resulting in chemical pneumonitis (inflammation of the lungs).
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Effects : May be fatal if swallowed and enters airways.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Combustible liquid.
In a fire or if heated, a pressure increase will occur and the container may burst.

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Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO₂)

Further information : Use a water spray to cool fully closed containers.
Move containers from fire if this can be done without risk.
Fight fire remotely due to the risk of explosion.
If this is impossible, withdraw from area and allow fire to burn.
No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Put on appropriate personal protection equipment.
Do not touch or walk through spilled material.
Evacuate unnecessary personnel.
Keep unnecessary and unprotected personnel from entering.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Stop leak if safe to do so.
Move containers from spill area.
Wash spillages into an effluent treatment plant or proceed as follows.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Dispose of wastes in an approved waste disposal facility.
Do not allow into the sewerage system, surface waters or groundwater or into the soil.
Contaminated absorbent material may pose the same hazard as the spilled product.
Non-sparking tools should be used.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Remove contaminated clothing and protective equipment before entering eating areas.
Workers should wash hands and face before eating, drinking and smoking.

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Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe 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 closed when not in use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Use appropriate container to avoid environmental contamination.

Recommended storage temperature : 41 - 95 °F / 5 - 35 °C

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
White mineral oil (petroleum)	8042-47-5	TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m ³	ACGIH

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Use explosion-proof ventilating equipment.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapor formation use a respirator with an approved filter.
In case of mist, spray or aerosol exposure wear suitable per-

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- sonal respiratory protection and protective suit.
- Hand protection
- Material : Natural rubber - NR
 - Material : Butyl rubber - IIR
 - Material : Nitrile rubber - NBR
- Remarks : Impervious gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Request information on glove permeation properties from the glove supplier.
- Eye protection : Safety glasses with side-shields
- Skin and body protection : Wear suitable protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : These recommendations apply to the product as supplied. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Oily liquid.
- Physical state : liquid
- Color : red
- Odor : No data available
- Odor Threshold : No data available
- pH : No data available

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substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 189 °F / 87 °C
Method: ASTM D 93

Evaporation rate : No data available

Flammability (liquids) : No data available

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 0.867 g/cm³ (60.1 °F / 15.6 °C)
Method: ASTM D 1298
0.867 g/cm³ (68 °F / 20 °C)
Method: ASTM D 1298

Solubility(ies)
Water solubility : insoluble
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : No data available

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Viscosity
 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Self-heating substances : No data available

Metal corrosion rate : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid formation of aerosol.
 Contamination
 Direct sources of heat.
 Exposure to air or moisture over prolonged periods.
 Strong sunlight for prolonged periods.

Incompatible materials : Strong oxidizing agents
 Strong acids and strong bases

Hazardous decomposition products : No hazardous decomposition products are known.

Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
 Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

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Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: Yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: Yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

White mineral oil (petroleum):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: Yes
Remarks: Test results on an analogous product

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: Yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Test results on an analogous product

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: Yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Test results on an analogous product

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Acute oral toxicity : LD50 (Rat, male and female): > 2,930 mg/kg
Method: OECD Test Guideline 401
GLP: Yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: Yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : Yes
Remarks : Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Species : Rabbit
Method : Draize Test
Result : No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : Yes
Remarks : Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Species : Rabbit
Result : No eye irritation

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Method : Draize Test

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Test Type : Buehler Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitization on laboratory animals.
GLP : Yes

White mineral oil (petroleum):

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitization on laboratory animals.
GLP : Yes
Remarks : Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Test Type : Patch Test
Routes of exposure : Skin contact
Species : Human
Result : Does not cause skin sensitization.

Test Type : No data available
Routes of exposure : Skin contact
Species : Guinea pig
Method : No information available.
Result : Did not cause sensitization on laboratory animals.
GLP : No

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Genotoxicity in vitro : Test Type: Ames test

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Test system: TA98
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: equivocal
GLP: No information available.
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: No
Remarks: Information given is based on data obtained from similar substances.

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: equivocal
GLP: Yes
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: No information available.
Result: negative
GLP: No information available.

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Test Type: HPRT test
Test system: rat hepatocytes
Metabolic activation: with metabolic activation
Method: No information available.
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Method: No information available.
Result: negative
GLP: No information available.

Test Type: Cytogenetic assay
Species: Rat (male)
Cell type: Bone marrow
Application Route: Oral
Method: No information available.
Result: negative
GLP: No information available.

Carcinogenicity

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

White mineral oil (petroleum):

Remarks : Animal testing did not show any carcinogenic effects.

2,6-di-tert-butyl-p-cresol:

Species : Rat, male and female
Application Route : Oral
Exposure time : 22 month(s)
Dose : 0 - 25 - 100 - 250/500 mg/kg body weight
NOAEL : 25 mg/kg bw/day
Method : No information available.
Result : equivocal
GLP : Yes

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

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IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 1000 milligram per kilogram
General Toxicity Parent: NOAEL: \geq 1,000 mg/kg bw/day
Fertility: NOAEL: \geq 1,000 mg/kg bw/day
Early Embryonic Development: NOAEL: \geq 1,000 mg/kg bw/day
Method: OECD Test Guideline 421
Result: No effects on fertility and early embryonic development were detected.
GLP: Yes
Remarks: Test results on an analogous product

White mineral oil (petroleum):

Effects on fertility : Species: Rat, female
Application Route: Dermal
Dose: 125 - 500 - 2000 milligram per kilogram
General Toxicity Parent: NOAEL: \geq 2,000 mg/kg body weight
Method: OECD Test Guideline 415
Remarks: Test results on an analogous product

Species: Rat, male and female
Application Route: Dermal
Dose: 125 - 500 - 2000 milligram per kilogram
Early Embryonic Development: NOAEL: \geq 2,000 mg/kg body weight
Method: OECD Test Guideline 415
Remarks: Test results on an analogous product

Effects on fetal development : Species: Rat, female
Application Route: Oral
Dose: 5000 milligram per kilogram

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Duration of Single Treatment: 14 d
General Toxicity Maternal: NOAEL: > 5,000 mg/kg body weight
Developmental Toxicity: NOAEL: > 5,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic potential.
Remarks: Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 25 - 100 - 250/500
Fertility: NOAEL: 500 mg/kg body weight
Result: Animal testing did not show any effects on fertility.
GLP: Yes

Effects on fetal development : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 25 - 100 - 250/500 milligram per kilogram
General Toxicity Maternal: NOAEL: 100 mg/kg body weight
Developmental Toxicity: NOAEL: 100 mg/kg body weight
Method: No information available.
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
GLP: Yes

Test Type: Pre-natal
Species: Mouse, female
Application Route: Oral
Dose: 70 - 240 - 800 milligram per kilogram
General Toxicity Maternal: NOAEL: 240 mg/kg body weight
Developmental Toxicity: NOAEL: 800 mg/kg body weight
Method: No information available.
Result: Did not show teratogenic effects in animal experiments.
GLP: No information available.

STOT-single exposure

Based on available data, the classification criteria are not met.

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

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Components:

Distillates (petroleum), hydrotreated light naphthenic:

Assessment : May cause respiratory irritation.

White mineral oil (petroleum):

Assessment : May cause respiratory irritation.

2,6-di-tert-butyl-p-cresol:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Species : Rat, male
LOAEL : 125 mg/kg
Application Route : Oral
Exposure time : 90 d
Number of exposures : daily
Dose : 125 - 500 mg/kg bw/d
Method : OECD Test Guideline 408
GLP : No information available.
Remarks : Test results on an analogous product

White mineral oil (petroleum):

Species : Rat, male and female
NOAEL : $\geq 1,200$ mg/kg
Application Route : Oral
Exposure time : 2 yr
Number of exposures : daily
Dose : 60 - 120 - 240 - 1200 mg/kg
Method : OECD Test Guideline 453
GLP : Yes
Remarks : Chronic toxicity
Test results on an analogous product

Species : Rat, male and female
NOAEL : $\geq 2,000$ mg/kg
Application Route : Skin contact
Exposure time : 91 d
Number of exposures : daily
Dose : 125 - 500 - 2000 mg/kg

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Method : OECD Test Guideline 411
GLP : Yes
Remarks : Subchronic toxicity
 : Test results on an analogous product

Species : Rabbit, male and female
NOAEL : 1,000 mg/kg
Application Route : Skin contact
Dose : 200 - 1000 - 2000 mg/kg
Method : OECD Test Guideline 410
GLP : Yes
Remarks : Subacute toxicity
 : Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Species : Rat, male and female
NOAEL : 25 mg/kg
LOAEL : 100 mg/kg
Application Route : Oral
Exposure time : 22 Months
Number of exposures : daily
Dose : 0 - 25 - 100 - 250/500 mg/kg bw/day
Method : No information available.
GLP : Yes
Symptoms : alteration in liver enzymes
Remarks : Chronic toxicity

Species : Pig, male and female
 : 1500 ppm
Application Route : Oral
Exposure time : 42 Days
Number of exposures : daily
Dose : 0 - 150 - 1000 - 1500 parts per million
Method : No information available.
GLP : Yes
Remarks : Subacute toxicity

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

May be fatal if swallowed and enters airways.

White mineral oil (petroleum):

May be fatal if swallowed and enters airways.

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Further information

Product:

Remarks : The product itself has not been tested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Analytical monitoring: Yes
Method: OECD Test Guideline 203
GLP: Yes
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No information available.
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: water extractable fraction
Test results on an analogous product

NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No information available.
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates (Chron- : NOELR (Daphnia magna (Water flea)): 10 mg/l
End point: Reproduction

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ic toxicity) Exposure time: 21 d
Analytical monitoring: No information available.
Method: OECD Test Guideline 211
GLP: Yes
Remarks: water extractable fraction

White mineral oil (petroleum):

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 203
Remarks: Fresh water
water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : LL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 202
Remarks: Fresh water
water extractable fraction

Toxicity to algae/aquatic plants : NOEL (Pseudokirchneriella subcapitata (microalgae)): >= 100 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water
water extractable fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia magna (Water flea)): 10 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
GLP: Yes
Remarks: Fresh water
water extractable fraction
Test results on an analogous product

2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0.57 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Regulation (EC) No. 440/2008, Annex, C.1
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.48 mg/l

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aquatic invertebrates End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0.4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: Yes
Remarks: Fresh water

EC10 (Desmodesmus subspicatus (green algae)): 0.4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: Yes
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): 0.053 mg/l
Exposure time: 42 d
Test Type: flow-through test
Analytical monitoring: Yes
Method: OECD Test Guideline 210
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.023 mg/l
End point: Reproduction
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: Yes

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Remarks: Fresh water
nominal concentration

Toxicity to soil dwelling organisms : Test Type: Reproduction Test
NOEC (Eisenia fetida (earthworms)): 25 mg/kg
Exposure time: 28 d
End point: Reproduction
Method: OECD Test Guideline 222
GLP: Yes

Plant toxicity : NOEC: 4.74 mg/kg
Exposure time: 17 d
End point: Growth inhibition
Species: Allium cepa
Method: OECD Test Guideline 208
GLP: Yes

EC50: 20.9 mg/kg
Exposure time: 17 d
End point: Growth inhibition
Species: Allium cepa
Method: OECD Test Guideline 208
GLP: Yes

Persistence and degradability

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Biodegradability : Result: Not readily biodegradable.

White mineral oil (petroleum):

Biodegradability : aerobic
Concentration: 44 mg/l
Result: Inherently biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: Yes

2,6-di-tert-butyl-p-cresol:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 4.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: No information available.

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Stability in water : Degradation half life (DT50): 4 - 8 d
Hydrolysis: at 20 °C

Photodegradation : Sensitizer: OH
Degradation (indirect photolysis):
Degradation half life: 21.054 h

Bioaccumulative potential

Components:

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Bioconcentration factor (BCF): > 2,000

Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 781
Exposure time: 56 d
Temperature: 77 °F / 25 °C
Concentration: 0.05 mg/l
Method: OECD Test Guideline 305
GLP: No information available.

Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 839
Exposure time: 56 d
Temperature: 77 °F / 25 °C
Concentration: 0.005 mg/l
Method: OECD Test Guideline 305
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: 5.1
Method: measured

Mobility in soil

Components:

2,6-di-tert-butyl-p-cresol:

Mobility : Medium: Soil
Content: 82.9 %
Method: Calculation, Mackay Level III Fugacity Model

Medium: Water
Content: 8.53 %
Method: Calculation, Mackay Level III Fugacity Model

Medium: Sediment
Content: 7.23 %

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Method: Calculation, Mackay Level III Fugacity Model

Medium: Air

Content: 1.33 %

Method: Calculation, Mackay Level III Fugacity Model

Distribution among environmental compartments : log Koc: 4.17
Method: estimated

Stability in soil : Test Type: aerobic degradation
Soil temperature: 54 °F / 12 °C
Radio label: Yes
pH: 5.7
Cation exchange capacity: 16 m_/kg
Biomass: 214 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Test Type: aerobic degradation
Soil temperature: 54 °F / 12 °C
Radio label: Yes
pH: 6.6
Cation exchange capacity: 47 m_/kg
Biomass: 265.7 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Test Type: aerobic degradation
Soil temperature: 54 °F / 12 °C
Radio label: Yes
pH: 7.4
Cation exchange capacity: 265 m_/kg
Biomass: 531.8 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Test Type: aerobic degradation
Soil temperature: 54 °F / 12 °C
Radio label: Yes
pH: 7.2
Cation exchange capacity: 257 m_/kg
Biomass: 938.7 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of

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mation

unprofessional handling or disposal.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.
The product itself has not been tested.

Components:

2,6-di-tert-butyl-p-cresol:

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : NA 1993
Proper shipping name : Combustible liquid, n.o.s.
(DISTILLATES (PETROLEUM))
Class : CBL
Packing group : III
Labels : COMB



ERG Code : 128
Marine pollutant : no

Hazard and Handling Notes.

Combustible.

Keep away from acids and oxidizing agents

Keep away from foodstuffs, acids and alkalis

If the quantity is in a non-bulk packaging (less than 119 gallons), this material ships as non-regulated unless the Combustible Liquid is a Hazardous Substance or a Hazardous Waste.

(See 49 CFR 173.150(F)(2))

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Aspiration hazard

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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	50 - 70
White mineral oil (petroleum)	8042-47-5	30 - 50
2,6-di-tert-butyl-p-cresol	128-37-0	1 - 5

Pennsylvania Right To Know

Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	50 - 70
White mineral oil (petroleum)	8042-47-5	30 - 50
Proprietary Acrylic Polymer	Trade Secret	> 1
2,6-di-tert-butyl-p-cresol	128-37-0	1 - 5

California Prop. 65

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.01%.

TSCA inventory

TSCA : All substances listed as active on the TSCA inventory, This product is subject under TSCA 5(a) to Proposed Significant New Use Restrictions (SNUR).

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

triphenyl phosphate	115-86-6	See 40 CFR 721.11780; Proposed Rule
		Proposed Rule

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

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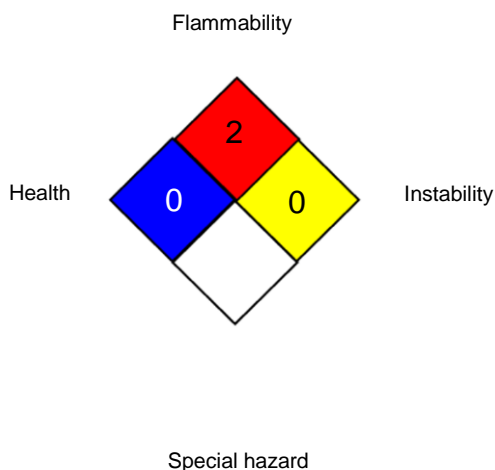
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NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA : 8-hour, time-weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.