



ROYCO 634E

Version: 1.3 Revision Date: 08/11/2015 Print Date: 03/24/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO 634E

ADVANCED WEAPONS CLEANER, LUBE & PRESERVATIVE

Product Use Description: Lubricant

Company: <u>Manufacturer</u>

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

Email: msdsrequest@chemtura.com

Emergency telephone CHEMTREC: (24 hours) 800-424-9300

number:

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

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 : Lubricant

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	dark amber
Odour	characteristic

GHS Classification

Skin irritation : Category 2 Chronic aquatic toxicity : Category 3

GHS Label element





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Signal word : Warning

Hazard pictograms

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Hazard statements : H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention**:

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC Group 3: Not classifiable as to its carcinogenicity to humans

Distillates (petroleum), 64742-47-8

hydrotreated light

2-butoxyethanol 111-76-2

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
NJTS# 136411-5778P Polyolefins		>= 20 - < 30 %
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 20 - < 30 %
Acetic acid, C9-11-branched alkyl esters, C10-rich	108419-34-7	>= 5 - < 10 %
Calcium alkylnaphthalenesulfonate		>= 1 - < 5 %
Distillates (petroleum), hydrotreated light	64742-47-8	>= 1 - < 5 %





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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 discolouration (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

Immediately flush eye(s) 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

delayed

and effects, both acute and

Notes to physician : For specialist advice physicians should contact the Poisons

Information Service.

: irritant effects

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during

firefighting

: Burning produces noxious and toxic fumes.

Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES





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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

: 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).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Keep container closed when not in use. Keep away from heat and flame.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Conditions for safe storage : Keep away from heat and sources of ignition.

Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep away from direct sunlight.

Materials to avoid : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0





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Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0

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 : Breathing apparatus needed only when aerosol or mist is

formed.

Hand protection

Remarks : Impervious 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : dark amber
Odor : characteristic
Odour Threshold : No data available

Melting point/range :

Not applicable

Boiling point/boiling range : No data available Evaporation rate : No data available

Flash point : $> 100 \, ^{\circ}\text{C}$

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available





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Relative density : No data available

Density : 0.88 g/cm3

Solubility(ies)

Water solubility : No data available Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Viscosity

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.

Possibility of hazardous

reactions

Conditions to avoid

: Hazardous polymerisation does not occur.

: Heat

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acetic acid, C9-11-branched

alkyl esters, C10-rich

(Component)

: LD50: > 5,000 mg/kg

Species: Rat

Acute dermal toxicity

Acetic acid, C9-11-branched

alkyl esters, C10-rich

(Component)

: LD50: > 3,160 mg/kg

Species: Rabbit

Skin irritation

1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component)

Acetic acid, C9-11-branched alkyl esters, C10-rich

: Result: No skin irritation

: Species: Rabbit Result: Skin irritation

SAP 6.0 SDS 2012-2 NA GHS 6 / 10 SDS Number: 000000002572





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(Component) Method: OECD Test Guideline 404

Exposure time: 4 h

Eye irritation

1-Decene, tetramer, mixed with 1-decene trimer,

hydrogenated (Component) Acetic acid, C9-11-branched

alkyl esters, C10-rich

(Component)

: Result: No eye irritation

: Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Remarks: Information given is based on data obtained from similar

substances.

Sensitisation

Acetic acid, C9-11-branched

alkyl esters, C10-rich

(Component)

: Patch Test

Species: Human

Remarks: Patch test on human volunteers did not demonstrate

sensitisation properties.

Information given is based on data obtained from similar substances.

Aspiration toxicity (Product) : No aspiration toxicity classification

CMR effects

1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (Component)

: Carcinogenicity: Animal testing did not show any carcinogenic effects. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: No effects on or via lactation, Did not show teratogenic

effects in animal experiments.

Reproductive toxicity: No toxicity to reproduction

Acetic acid, C9-11-branched alkyl esters, C10-rich

(Component)

: Mutagenicity: Animal testing did not show any mutagenic effects.

Teratogenicity: No effects on or via lactation

Further information (Product) : There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:

No data available

Toxicity to daphnia and other aquatic invertebrates





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1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component)

: EC50: 190 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Acetic acid, C9-11-branched

alkyl esters, C10-rich

(Component)

: EC50: 1.8 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test Method: OECD Test Guideline 202

Toxicity to algae

Acetic acid, C9-11-branched : EC50: > 1,021 mg/l

alkyl esters, C10-rich

(Component)

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

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

Ecotoxicology Assessment

Results of PBT assessment (Product)

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

Additional ecological : There is no data available for this product.

information (Product) Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of waste material in compliance with all federal, state,

and local regulations.

SECTION 14. TRANSPORT INFORMATION

ADR





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Not dangerous goods

RID

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Additional advice: Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : Not relevant

Not relevant

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

CERCLA Reportable Quantity

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

SARA304 Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

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

US.TSCA On TSCA Inventory





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DSL	All components of this product are		
AICS	Not in compliance with the inventory		
NZIoC	Not in compliance with the inventory		
ENCS	On the inventory, or in compliance with the inventory		
KECI	Not in compliance with the inventor	ory	
PICCS	Not in compliance with the inventor		
IECSC	Not in compliance with the inventor		

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+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 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.