

# SAFETY DATA SHEET



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : ROYCO 49 MIL-DTL-23549  
Product code : 000000000004055630

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Lubricant  
Recommended restrictions on use : Reserved for industrial and professional use.

#### 1.3 Details of the supplier of the safety data sheet

Company: Supplier  
LANXESS Solutions UK Ltd.  
Tenax Road, Trafford Park  
Manchester  
United Kingdom  
M17 1WT

Customer Service: +44 161 875 3800  
Prepared by Production, Technology, Safety & Environment  
+4922188852288

Further information for the safety data sheet : [infosds@lanxess.com](mailto:infosds@lanxess.com)

#### 1.4 Emergency telephone number

+44 20 3885 0382

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

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version 1.2      Revision Date: 11.01.2022      SDS Number: 400000001776      Date of last issue: 25.05.2021  
Date of first issue: 25.05.2021

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (GB CLP)

Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (GB CLP)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

##### Additional Labelling

EUH208 Contains N-1-naphthylaniline, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-. May produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sodium nitrite	7632-00-0 231-555-9 007-010-00-4 01-2119471836-27-xxxx	Ox. Sol. 3; H272 Acute Tox. 3; H301 Aquatic Acute 1; H400	>= 2.5 - < 10
N-1-naphthylaniline	90-30-2 201-983-0 01-2119488704-27-xxxx	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 (Blood, Kidney) Aquatic Acute 1;	>= 0.25 - < 1

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version 1.2      Revision Date: 11.01.2022      SDS Number: 400000001776      Date of last issue: 25.05.2021  
Date of first issue: 25.05.2021

		H400 Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- 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.
- If inhaled : Remove to fresh air.  
If breathing is difficult, give oxygen.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with warm water and soap.  
If skin irritation persists, call a physician.  
Cool skin rapidly with cold water after contact with molten material.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately.
- If swallowed : Do NOT induce vomiting.  
Obtain medical attention.  
Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : (on small fires)  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Dry sand  
Extinguishing media - large fires  
Water mist  
Foam

Unsuitable extinguishing media : Water spray jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.

#### 5.3 Advice for firefighters

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

Further information : Cool containers/tanks with water spray.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

---

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.  
Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Pick up and transfer to properly labelled containers.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version      Revision Date:      SDS Number:      Date of last issue: 25.05.2021  
1.2          11.01.2022          400000001776      Date of first issue: 25.05.2021

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Wear suitable protective equipment.  
Avoid contact with skin, eyes and clothing.  
Keep tightly closed.  
Protect from contamination.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Avoid breathing vapours, mist or gas.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep tightly closed in a dry, cool and well-ventilated place.
- Further information on storage conditions : Keep away from oxidizing agents.
- Further information on storage stability : Stable under recommended storage conditions.

### 7.3 Specific end use(s)

- Specific use(s) : Raw material for industry

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
molybdenum di-sulphide	1317-33-5	TWA	10 mg/m <sup>3</sup> (Molybdenum)	GB EH40
		STEL	20 mg/m <sup>3</sup> (Molybdenum)	GB EH40
Graphite	7782-42-5	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
N-1-naphthylaniline	Workers	Inhalation	Long-term systemic	0.18 mg/m <sup>3</sup>

# SAFETY DATA SHEET

# LANXESS

Energizing Chemistry

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version 1.2      Revision Date: 11.01.2022      SDS Number: 400000001776      Date of last issue: 25.05.2021  
Date of first issue: 25.05.2021

			effects	
	Workers	Inhalation	Acute systemic effects	44 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.05 mg/kg
	Workers	Dermal	Acute systemic effects	6.67 mg/kg
	General exposures	Inhalation	Long-term systemic effects	0.044 mg/m <sup>3</sup>
	General exposures	Inhalation	Acute systemic effects	33 mg/m <sup>3</sup>
	General exposures	Dermal	Long-term systemic effects	0.03 mg/kg
	General exposures	Dermal	Long-term systemic effects	3.33 mg/kg
	General exposures	Ingestion	Long-term systemic effects	0.03 mg/kg
	General exposures	Ingestion	Acute systemic effects	8 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
N-1-naphthylaniline	Fresh water	0.0002 mg/l
	Marine water	0.00002 mg/l
	Fresh water sediment	0.0344 mg/kg
	Marine sediment	0.00344 mg/kg
	Soil	0.0068 mg/kg
	STP	100 mg/l

## 8.2 Exposure controls

### Engineering measures

Use with adequate ventilation.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles  
Hand protection :  
Remarks : Impervious butyl rubber gloves When handling hot material, use heat resistant gloves.  
Skin and body protection : Impervious clothing  
Respiratory protection : No personal respiratory protective equipment normally required.  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : paste

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

Colour	:	black
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	No data available
Drop point	:	232 °C Method: ASTM D 2265
Boiling point/boiling range	:	No data available
Flash point	:	239 °C Method: Cleveland open cup ASTM D 92
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	No data available
Relative density	:	0.99
Density	:	No data available
Solubility(ies)	:	
Water solubility	:	negligible
Solubility in other solvents	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

### 9.2 Other information

Self-Accelerating decomposition temperature (SADT)	:	Method: No information available.
Oxidizing potential	:	No information available.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

Self-ignition : No data available

---

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Conditions to avoid : Contamination  
Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Sodium oxides  
Sulphur oxides  
Carbon oxides  
Nitrogen oxides (NOx)

---

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: Not classified due to lack of data.

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Not classified due to lack of data.

##### Components:

##### **N-1-naphthylaniline:**

Acute oral toxicity : LD50 (Rat): 1,625 mg/kg

---



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version      Revision Date:      SDS Number:      Date of last issue: 25.05.2021  
1.2          11.01.2022          400000001776      Date of first issue: 25.05.2021

---

Acute dermal toxicity                    :    LD50 Dermal (Rabbit, male): > 5,000 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks                                    :    Not classified due to lack of data.

#### Components:

##### **N-1-naphthylaniline:**

Species                                    :    Rabbit  
Method                                     :    OECD Test Guideline 404  
Result                                      :    No skin irritation  
GLP                                         :    no

##### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Species                                    :    Rabbit  
Exposure time                            :    24 h  
Assessment                                :    Irritating to skin.  
Method                                     :    OECD-Guideline No. 404  
Result                                      :    Skin irritation  
GLP                                         :    no

### Serious eye damage/eye irritation

#### Product:

Remarks                                    :    Not classified due to lack of data.

#### Components:

##### **N-1-naphthylaniline:**

Species                                    :    Rabbit  
Method                                     :    OECD Test Guideline 405  
Result                                      :    No eye irritation  
GLP                                         :    no

### Respiratory or skin sensitisation

#### Components:

##### **N-1-naphthylaniline:**

Test Type                                 :    Maximisation Test  
Exposure routes                         :    Skin contact  
Species                                    :    Guinea pig  
Method                                     :    OECD Test Guideline 406  
Result                                      :    Probability or evidence of low to moderate skin sensitisation

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version 1.2      Revision Date: 11.01.2022      SDS Number: 400000001776      Date of last issue: 25.05.2021  
Date of first issue: 25.05.2021

---

GLP : rate in humans  
: no

### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 406  
Result : The product is a skin sensitiser, sub-category 1B.  
GLP : yes

### **Germ cell mutagenicity**

#### **Product:**

Germ cell mutagenicity- Assessment : Not classified due to lack of data.

#### **Components:**

#### **N-1-naphthylaniline:**

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: Chinese Hamster Ovary (CHO)  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 478  
Result: negative  
GLP: No information available.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version      Revision Date:      SDS Number:      Date of last issue: 25.05.2021  
1.2          11.01.2022          400000001776      Date of first issue: 25.05.2021

---

### Carcinogenicity

**Product:**

Carcinogenicity - Assessment : Not classified due to lack of data.

**Components:**

**N-1-naphthylaniline:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

**Product:**

Reproductive toxicity - Assessment : Not classified due to lack of data.

**Components:**

**N-1-naphthylaniline:**

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 15 - 50 - 150 milligram per kilogram  
General Toxicity Maternal: NOAEL: 50 mg/kg bw/day  
Developmental Toxicity: NOAEL: 150 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

### STOT - single exposure

**Product:**

Assessment : Not classified due to lack of data.

### STOT - repeated exposure

**Product:**

Assessment : Not classified due to lack of data.

**Components:**

**N-1-naphthylaniline:**

Exposure routes : Oral  
Target Organs : Blood, Kidney  
Assessment : May cause damage to organs through prolonged or repeated exposure.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

### Repeated dose toxicity

#### Components:

##### **N-1-naphthylaniline:**

Species	: Rat, male and female
LOAEL	: 5 mg/kg
Application Route	: Oral
Exposure time	: 90 h
Number of exposures	: dail
Dose	: 5 - 25 - 50 mg/kg bw/day
Method	: OECD Test Guideline 408
GLP	: yes
Remarks	: Subchronic toxicity

### Aspiration toxicity

#### Product:

No aspiration toxicity classification

### Further information

#### Product:

Remarks : No data is available on the product itself.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

#### Components:

##### **N-1-naphthylaniline:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.44 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.68 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Analytical monitoring: yes

M-Factor (Acute aquatic toxicity) : 1

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version 1.2      Revision Date: 11.01.2022      SDS Number: 400000001776      Date of last issue: 25.05.2021  
Date of first issue: 25.05.2021

---

- Toxicity to microorganisms : EC50 (Protozoa): 2 mg/l  
Exposure time: 48 h
- EC50 (Bacteria): > 10,000 mg/l  
Exposure time: 3 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.02 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes
- M-Factor (Chronic aquatic toxicity) : 1
- 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**
- Toxicity to fish : LC50 (Zebra fish (Brachydanio rerio)): 1.3 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.05 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 0.976 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

### Ecotoxicology Assessment

- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

#### Product:

- Biodegradability : Result: No data available

#### Components:

##### **N-1-naphthylaniline:**

- Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: yes

### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Biodegradability : Test Type: Primary biodegradation  
Concentration: 20 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: no  
Remarks: see user defined free text

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: No data available

#### **Components:**

##### **N-1-naphthylaniline:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.1 mg/l  
Bioconcentration factor (BCF): 427 - 2,730

Partition coefficient: n-  
octanol/water : log Pow: 4.28

##### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Partition coefficient: n-  
octanol/water : log Pow: > 6

### 12.4 Mobility in soil

#### **Product:**

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

### 12.6 Other adverse effects

**Product:**

- Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
- Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : In accordance with local and national regulations.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

---

### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable
- Volatile organic compounds : Volatile organic compounds (VOC) content: 0 %

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

- TCSI : Not in compliance with the inventory
- US.TSCA : All substances listed as active on the TSCA inventory
- AIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- 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
- NZIoC : Not in compliance with the inventory

#### 15.2 Chemical safety assessment

No information available.

### SECTION 16: Other information

#### Full text of H-Statements

- H272 : May intensify fire; oxidizer.
- H301 : Toxic if swallowed.



# SAFETY DATA SHEET

# LANXESS

Energizing Chemistry

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Ox. Sol.	:	Oxidizing solids
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl -

# SAFETY DATA SHEET



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

## ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: 25.05.2021
1.2	11.01.2022	400000001776	Date of first issue: 25.05.2021

---

Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Chronic 3                      H412

#### Classification procedure:

Calculation method

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.

GB / EN