

# SAFETY DATA SHEET



## ROYCO 43 SAE-AMS-G-4343

Version	Revision Date:	SDS Number:	Date of last issue: 10/12/2018
1.9	01/18/2019	400000001759	Date of first issue: 12/05/2014

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### SECTION 1. IDENTIFICATION

Product name: ROYCO 43 SAE-AMS-G-4343  
(SAE-AMS-G-4343) PNEUMATIC SYSTEMS GREASE MEETS THE LATEST REVISION

Product Use Description: Lubricant

Synonyms: Synthetic Lubricant Formulation

Company: Manufacturer  
Anderol Specialty Lubricants, a division of Lanxess Solutions US Inc.  
215 Merry Lane  
East Hanover, NJ  
07936  
United States of America (USA)  
Telephone: +1 203-573-4596, Toll Free: +1 888-263-3765

Emergency telephone number: CHEMTREC  
(24 hours) 800-424-9300  
  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department  
(US) +1 866-430-2775  
  
MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : None known.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements

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

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

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### Disposal:

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

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
lithium 12-hydroxystearate	7620-77-1	>= 10 - < 20
calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	>= 1 - < 5
NJTS#: 46728100000-0002 - Proprietary amine		>= 0.25 - < 1
lithium 12-hydroxystearate	7620-77-1	>= 10 - < 20
calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	>= 1 - < 5
N-1-naphthylaniline	90-30-2	>= 0.25 - < 1

## SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.  
Aspiration may cause pulmonary oedema and pneumonitis.  
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.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Obtain medical attention.
- If swallowed : Obtain medical attention.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : (on small fires)  
Carbon dioxide (CO2)  
Dry chemical  
Dry sand  
Extinguishing media - large fires

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Foam  
 Water mist

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
 Burning produces irritant fumes.  
 Exposure to decomposition products may be a hazard to health.

Further information : Cool containers/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 : Wear suitable protective equipment.

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

Methods and materials for containment and cleaning up : Scrape up.  
 Pick up and transfer to properly labelled containers.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
 Avoid contact with skin, eyes and clothing.  
 Wear suitable protective equipment.  
 Keep tightly closed.  
 Protect from contamination.

Conditions for safe storage : Keep tightly closed in a dry, cool and well-ventilated place.  
 Protect from contamination.

Further information on storage stability : Stable under recommended storage conditions.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Contains no substances with occupational exposure limit values.				
1-Decene, tetramer, mixed	68649-12-7	TWA (Mist)	5 mg/m3	OSHA Z-1

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with 1-decene trimer, hydro- genated				
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
lithium stearate	4485-12-5	TWA (Inhal- able fraction)	10 mg/m3	ACGIH
		TWA (Res- pirable frac- tion)	3 mg/m3	ACGIH
lithium 12-hydroxystearate	7620-77-1	TWA (Inhal- able fraction)	10 mg/m3	ACGIH
		TWA (Res- pirable frac- tion)	3 mg/m3	ACGIH
N-1-naphthylaniline	90-30-2	TWA	10 ml/m3	ACGIH

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection

Remarks : Impervious gloves

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

Skin and body protection : Impervious clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : tan

Odour : mild, hydrocarbon-like

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available  
No data available

Boiling point/boiling range : No data available

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No data available

Flash point : > 392 °F / 200 °C

Method: open cup  
No data available

Evaporation rate : 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

Vapour pressure : Not applicable

No data available

Relative vapour density : No data available

Relative density : 0.8

No data available

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : partly soluble

No data available

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

Auto-ignition temperature : not determined

Decomposition temperature : No data available

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

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing potential : No information available.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

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Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerisation does not occur.
Conditions to avoid	:	Contamination
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon oxides Metal oxides

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**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact  
Eye contact

**Acute toxicity****Components:****calcium bis(dinonylnaphthalenesulphonate):**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: > 15 mg/l Test atmosphere: dust/mist Method: Expert judgement
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg

**NJTS#: 46728100000-0002 - Proprietary amine:**

Acute oral toxicity	:	LD50 (Rat): 1,625 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5,000 mg/kg

**calcium bis(dinonylnaphthalenesulphonate):**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: > 15 mg/l Test atmosphere: dust/mist Method: Expert judgement
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg

**N-1-naphthylaniline:**

Acute oral toxicity	:	LD50 (Rat): 1,625 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5,000 mg/kg

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**Skin corrosion/irritation****Components:****calcium bis(dinonylnaphthalenesulphonate):**

Species : Rabbit  
Result : Irritating to skin.  
Remarks : see user defined free text

**NJTS#: 46728100000-0002 - Proprietary amine:**

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

**calcium bis(dinonylnaphthalenesulphonate):**

Species : Rabbit  
Result : Irritating to skin.  
Remarks : see user defined free text

**N-1-naphthylaniline:**

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

**Serious eye damage/eye irritation****Components:****calcium bis(dinonylnaphthalenesulphonate):**

Species : Rabbit  
Result : Irritating to eyes.

**NJTS#: 46728100000-0002 - Proprietary amine:**

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

**calcium bis(dinonylnaphthalenesulphonate):**

Species : Rabbit  
Result : Irritating to eyes.

**N-1-naphthylaniline:**

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

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**Respiratory or skin sensitisation****Components:****calcium bis(dinonylnaphthalenesulphonate):**

Test Type : Patch Test  
Species : Humans  
Assessment : Did not cause sensitisation on laboratory animals.

**NJTS#: 46728100000-0002 - Proprietary amine:**

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type : Patch Test  
Species : Humans  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

**calcium bis(dinonylnaphthalenesulphonate):**

Test Type : Patch Test  
Species : Humans  
Assessment : Did not cause sensitisation on laboratory animals.

**N-1-naphthylaniline:**

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type : Patch Test  
Species : Humans  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

**Germ cell mutagenicity****Components:****calcium bis(dinonylnaphthalenesulphonate):**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative



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Remarks: Information given is based on data obtained from similar substances.

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

**NJTS#: 46728100000-0002 - Proprietary amine:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chinese Hamster Ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay  
Species: Mouse (male)  
Result: negative

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

**calcium bis(dinonylnaphthalenesulphonate):**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

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

**N-1-naphthylaniline:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chinese Hamster Ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay  
Species: Mouse (male)  
Result: negative

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

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### Carcinogenicity

#### Components:

##### **NJTS#: 46728100000-0002 - Proprietary amine:**

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

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

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

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

### STOT - repeated exposure

#### Components:

##### **NJTS#: 46728100000-0002 - Proprietary amine:**

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

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

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

### Aspiration toxicity

#### Product:

No aspiration toxicity classification

### Further information

#### Product:

Remarks : There is no data available for this product.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: No data available

**Components:****NJTS#: 46728100000-0002 - Proprietary amine:**

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.02 mg/l  
Exposure time: 21 d  
Analytical monitoring: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Protozoa): 2 mg/l  
Exposure time: 48 h  
  
EC50 (Bacteria): > 10,000 mg/l  
Exposure time: 3 h

**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

Toxicity to daphnia and other aquatic invertebrates (Chronic) : NOEC (Daphnia magna (Water flea)): 0.02 mg/l  
Exposure time: 21 d

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ic toxicity) Analytical monitoring: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Protozoa): 2 mg/l  
Exposure time: 48 h  
  
EC50 (Bacteria): > 10,000 mg/l  
Exposure time: 3 h

**Persistence and degradability****Product:**

Biodegradability : Result: No data available

**Components:****lithium 12-hydroxystearate:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d

**calcium bis(dinonylnaphthalenesulphonate):**

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Remarks: Information given is based on data obtained from similar substances.

**NJTS#: 4672810000-0002 - Proprietary amine:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: yes

**lithium 12-hydroxystearate:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d

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**calcium bis(dinonylnaphthalenesulphonate):**

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Remarks: Information given is based on data obtained from similar substances.

**N-1-naphthylaniline:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: yes

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Components:****lithium 12-hydroxystearate:**

Partition coefficient: n-octanol/water : log Pow: 2.60

**calcium bis(dinonylnaphthalenesulphonate):**

Partition coefficient: n-octanol/water : log Pow: 10.96  
Method: estimated

**NJTS#: 46728100000-0002 - Proprietary amine:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 427 - 2,730  
Exposure time: 56 d  
Temperature: 77 °F / 25 °C  
Concentration: 0.1 mg/l

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

**lithium 12-hydroxystearate:**

Partition coefficient: n-octanol/water : log Pow: 2.60

**calcium bis(dinonylnaphthalenesulphonate):**

Partition coefficient: n-octanol/water : log Pow: 10.96  
Method: estimated

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

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 427 - 2,730  
Exposure time: 56 d  
Temperature: 77 °F / 25 °C  
Concentration: 0.1 mg/l

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

### **Mobility in soil**

#### **Product:**

Mobility : Remarks: No data available

### **Other adverse effects**

#### **Product:**

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : In accordance with local and national regulations.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### **National Regulations**

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### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

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

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1-naphthylamine	134-32-7	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### 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** : No SARA Hazards

**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.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

#### California Prop. 65

WARNING: This product can expose you to chemicals including aniline, 1-naphthylamine, 2-naphthylamine, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.**

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

DSL : All components of this product are on the Canadian DSL

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AICS : On the inventory, or in compliance with the inventory  
NZIoC : Not in compliance with the inventory  
ENCS : On the inventory, or 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  
TCSI : On the inventory, or in compliance with the inventory  
US.TSCA : On TSCA 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

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
NIOSH REL : USA. NIOSH Recommended Exposure Limits  
OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / TWA : Time-Weighted Average Limit (TWA)  
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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 Har-



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monized 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 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; 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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