

## SAFETY DATA SHEET

according to the Globally Harmonized System

### ARQUAD 2C-75

Version 3

Revision Date 09.11.2017

Print Date 23.07.2019

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EN

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Information

Trade name : ARQUAD 2C-75

Use of the Substance/Mixture : Specific use(s): Surfactant

Company : Nouryon Surface Chemistry AB  
Stenunge Alle 3  
SE 444 85 Stenungsund  
Sweden

Telephone : +4630385000  
Telefax : +4630384659  
E-mail address : Regulatory.Affairs@nouryon.com  
Emergency telephone number : 020 99 60 00 Kemiakuten, SE +31 57 06 79 211 24 hours emergency response number

#### 2. HAZARDS IDENTIFICATION

##### GHS-Classification

Flammable liquids, Category 3  
Acute toxicity, Category 4, Oral  
Skin corrosion/irritation, Sub-category 1B  
Serious eye damage/eye irritation, Category 1  
Acute aquatic toxicity, Category 1  
Chronic aquatic toxicity, Category 2

##### GHS-Labelling

Hazard pictograms :



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Signal word	:	Danger	
Hazard statements	:	H226 H302 H314  H400 H411	Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage.  Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P210  P233 P240  P241  P242 P243  P264 P270  P273 P280  <b>Response:</b> P301 + P312 + P330  P301 + P330 + P331  P303 + P361 + P353  P304 + P340 + P310  P305 + P351 + P338 + P310  P363  P370 + P378	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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P391

Collect spillage.

**Storage:**

P403 + P235

Store in a well-ventilated place. Keep cool.

P405

Store locked up.

**Disposal:**

P501

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

**Other hazards which do not result in classification**

No further data available.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	GHS Classification	Concentration[%]
Dicocodimethylammonium chloride	61789-77-3	Acute Tox. 4; H302 Skin Corr./Irrit. 1B; H314 Eye Dam./Irrit. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute): 1	>= 70 - < 90
2-Propanol	67-63-0	Flam. Liq. 2; H225 Eye Dam./Irrit. 2A; H319 STOT SE 3; H336	>= 10 - < 20

For the full text of the H-Statements mentioned in this Section, see Section 16.

**The following substances have multiple CAS-number**Dicocodimethylammonium : 68391-05-9  
chloride

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**4. FIRST AID MEASURES**

- General advice : Immediate medical attention is required.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- Inhalation : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.
- Skin contact : Take off contaminated clothing and shoes immediately.  
Wash the skin immediately with soap and water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- Eye contact : Rinse with plenty of water.  
Get medical attention immediately. Continue to rinse during transport.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.  
Do not induce vomiting! May cause chemical burns in mouth and throat.

**Notes to physician**

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Treatment : Treat symptomatically.

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**5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting / Specific hazards arising from the chemical : Water spray may be ineffective unless used by experienced firefighters.  
Do not allow run-off from fire fighting to enter drains or water courses.

Combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Halogenated compounds  
Hydrogen chloride

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

Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.

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	<p>Wear respiratory protection. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.</p>
Emergency measures on accidental release	<p>: Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorised persons entering the zone.</p>
Environmental precautions	<p>: Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.</p>
Methods for cleaning up / Methods for containment	<p>: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).</p>
Reference to other sections	<p>: For disposal considerations see section 13.  For personal protection see section 8.</p>

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## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling	<p>: For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.</p>
Advice on protection against fire and explosion	<p>: Avoid formation of aerosol. Keep away from sources of ignition - No smoking. No sparking tools should be used. Take measures to prevent the build up of electrostatic charge.</p>

### Storage

Requirements for storage areas and containers	<p>: No smoking. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.</p>
Other data	<p>: No decomposition if stored and applied as directed.</p>

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
2-Propanol	67-63-0	TWA	200 ppm	2013-03-01	ACGIH	
	Further information	:	CNS impair: Central Nervous System impairment URT irr: Upper Respiratory Tract irritation eye irr: Eye irritation BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section) A4: Not classifiable as a human carcinogen			
		STEL	400 ppm	2013-03-01	ACGIH	
	Further information	:	CNS impair: Central Nervous System impairment URT irr: Upper Respiratory Tract irritation eye irr: Eye irritation BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section) A4: Not classifiable as a human carcinogen			
		TWA	400 ppm 980 mg/m3	2013-10-08	NIOSH REL	
		ST	500 ppm 1 225 mg/m3	2013-10-08	NIOSH REL	
		TWA	400 ppm 980 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	(b): The value in mg/m3 is approximate.			
		TWA	400 ppm 980 mg/m3	1989-01-19	OSHA P0	
		STEL	500 ppm 1 225 mg/m3	1989-01-19	OSHA P0	
		PEL	400 ppm 980 mg/m3	2014-11-26	CAL PEL	
		STEL	500 ppm 1 225 mg/m3	2014-11-26	CAL PEL	

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ACGIH: American Conference of Governmental Industrial Hygienists  
 BEI: Biological Exposure Index  
 MAC: Maximum Allowable Concentration  
 NIOSH: National Institute for Occupational Safety and Health  
 OEL: OEL: Occupational exposure limit.  
 STEL: Short term exposure limit  
 TWA: Time Weighted Average

Hydrogen chloride	7647-01-0, 7647-01-0	C	2 ppm	2007-01-01	ACGIH	
	Further information	:	URT irr: Upper Respiratory Tract irritation A4: Not classifiable as a human carcinogen			
		C	5 ppm 7 mg/m3	2013-10-08	NIOSH REL	
	Further information	:	Often used in an aqueous solution.			
		C	5 ppm 7 mg/m3	2006-02-28	OSHA Z-1	
	Further information	:	(b): The value in mg/m3 is approximate. (C): Ceiling limit is to be determined from breathing-zone air samples.			
		C	5 ppm 7 mg/m3	1989-01-19	OSHA P0	
		PEL	0,3 ppm 0,45 mg/m3	2014-11-26	CAL PEL	
		C	2 ppm	2014-11-26	CAL PEL	

## Engineering controls

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

Respiratory protection : Wear full face mask supplied with:  
Combination filter: ABEKP.

In the case of vapour or aerosol formation use a respirator with an approved filter.

Hand protection : Neoprene

Nitrile rubber

Eye protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing



problems.

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## Environmental exposure controls

General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid  
Colour : yellow  
Odour : alcohol-like  
Odour Threshold : No data available

### Safety data

pH : 6 - 9 at 5 % solution  
Melting point/range : < -10 °C  
Boiling point/boiling range : 80 °C  
Flash point : 29 °C  
Method: Abel-Pensky DIN 51755  
Ignition temperature : > 100 °C  
Evaporation rate : No data available  
Flammability (solid, gas) : Not applicable  
Flammability (liquids) : Flammable liquid and vapour.  
Lower explosion limit : No data available  
Upper explosion limit : No data available  
Vapour pressure : 31,7 hPa at 50 °C

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Relative vapour density	: No data available
Density	: 880 kg/m <sup>3</sup> at 20 °C
Relative density	: ca. 0,88 at 20 °C
Water solubility	: dispersible
Solubility in other solvents	: Soluble in 2-propanol.
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, dynamic	: 120 mPa.s at 25 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: None known.
Hazardous decomposition products	: Halogenated compounds Hydrogen chloride
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.

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## 11. TOXICOLOGICAL INFORMATION

**Product information:**

## Potential Health Effects

Inhalation	: Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.
Skin	: Symptoms may be delayed. Causes severe skin burns.
Eyes	: Causes serious eye damage.
Ingestion	: Harmful if swallowed. Causes burns.
Aggravated Medical Condition	: None known.
Symptoms of Overexposure	: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

## Toxicology Assessment

Further information	: Solvents may degrease the skin.
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## Toxicology data for the components:

### Toxicology Assessment

#### Component: 2-Propanol

CMR effects	: Mutagenicity: Not mutagenic in Ames Test
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## Test result

#### Component: Dicocodimethylammonium chloride

Acute oral toxicity	: LD50: > 300 - 2 000 mg/kg Species: Rat Method: OECD Test Guideline 401
Skin irritation	: Species: Rabbit Result: Causes burns. Method: OECD Test Guideline 404
Eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405
Sensitisation	: Buehler Test

Species: Guinea pig  
Result: negative  
Method: OECD Test Guideline 406

**Component: 2-Propanol**

Acute oral toxicity : LD50: 5 840 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401  
Literature data.

Acute inhalation toxicity : LC50 (Rat): > 10000 ppm  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 12 800 mg/kg  
Species: Rabbit  
Method: OECD Test Guideline 402  
Literature data.

Skin irritation : Species: Rabbit  
Result: No skin irritation  
Exposure time: 4 h  
Literature data.

Eye irritation : Species: Rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405  
Literature data.

Sensitisation : Buehler Test  
Species: Guinea pig  
Result: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406  
Literature data.

Germ cell mutagenicity  
Genotoxicity in vitro : Ames test  
Bacteria  
Result: negative  
Method: OECD Test Guideline 471  
Literature data.

Genotoxicity in vivo : Species: Mouse  
Method: Mutagenicity (micronucleus test)  
Result: negative  
Literature data.

Target Organ Systemic : Exposure routes: Inhalation, Ingestion

Toxicant - Single exposure

May cause drowsiness or dizziness.

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## 12. ECOLOGICAL INFORMATION

### Product information:

#### Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.  
Toxic to aquatic life with long lasting effects.

### Components:

#### Test result

#### Component: Dicocodimethylammonium chloride

#### Ecotoxicity effects

Toxicity to fish : LC50: > 0,1 - 1 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 203

Toxicity to algae : NOEC: > 0,01 - 0,1 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

EC50: > 0,1 - 1 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

M-Factor (Acute) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,01 - 0,1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

#### Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : immobile

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

**Further information on ecology**

Biochemical Oxygen : No data available  
Demand (BOD)

**Component: 2-Propanol****Ecotoxicity effects**

Toxicity to fish : LC50: 1 400 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other : EC50: 2 285 mg/l  
aquatic invertebrates Exposure time: 48 h  
Species: Daphnia magna (Water flea)

**Elimination information (persistence and degradability)**

Bioaccumulation : Not expected considering the low log Pow value.

Mobility : No data available

Biodegradability : Result: Readily biodegradable.

**Further information on ecology**

Biochemical Oxygen : 1 171 mg/g  
Demand (BOD)  
Chemical Oxygen Demand : 2 294 mg/g  
(COD)

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**13. DISPOSAL CONSIDERATIONS**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not burn, or use a cutting torch on, the empty drum.

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**14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No. : UN 2920  
Proper shipping name : Corrosive liquid, flammable, n.o.s.  
(Quaternary alkyl ammonium chloride, Isopropyl alcohol)  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 2920  
Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
(Quaternary alkyl ammonium chloride, Isopropyl alcohol)  
Class : 8  
Subsidiary risk : 3  
Packing group : II  
Labels : 8 (3)  
EmS Code : F-E, S-C  
Marine pollutant : yes  
(Quaternary alkyl ammonium chloride)

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

Not applicable for product as supplied.

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**15. REGULATORY INFORMATION****Notification status**

DSL : YES. All components of this product are on the Canadian DSL  
AICS : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory  
TCSI : YES. On the inventory, or in compliance with the inventory  
TSCA : YES. All chemical substances in this product are either listed on the  
TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviation see section 16.

Further information : none

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**16. OTHER INFORMATION****Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.
H400	: Very toxic to aquatic life.
H411	: Toxic to aquatic life with long lasting effects.

**Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
CAL PEL	: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
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 / STEL	: Short-term exposure limit
ACGIH / C	: Ceiling limit
CAL PEL / STEL	: Short term exposure limit
CAL PEL / PEL	: Permissible exposure limit
CAL PEL / C	: Ceiling
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
NIOSH REL / C	: Ceiling value not be exceeded at any time.
OSHA P0 / TWA	: 8-hour time weighted average
OSHA P0 / STEL	: Short-term exposure limit
OSHA P0 / C	: Ceiling limit
OSHA Z-1 / TWA	: 8-hour time weighted average
OSHA Z-1 / C	: Ceiling

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

## Further information

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.