

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

#### 1.1 Product identifier

Product name	: ANIOS RN
Product code	: 193000
Use of the Substance/Mixture	: Neutralizing Agent
Substance type:	: Mixture

#### For professional users only.

Product dilution information	:	No dilution information provided.
------------------------------	---	-----------------------------------

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

Identified uses	:	Medical devices . Semi-automatic process
Recommended restrictions on use	:	Reserved for industrial and professional use.

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

Company :	Laboratoires ANIOS 1 rue de l'Espoir 59260 Lezennes, France Tel. + 33 (0)3 20 67 67 67 Fax. + 33 (0)3 20 67 67 68 fds@anios.com
	Ecolab Ltd. PO Box 11; Winnington Avenue Northwich, Cheshire, United Kingdom CW8 4DX + 44 (0)1606 74488 ccs@ecolab.com

#### **1.4 Emergency telephone number**

Emergency telephone number	:	+32-(0)3-575-5555 Trans-European
Poison Information Centre telephone number	:	For medical professionals only: 0344 892 0111

Date of Compilation/Revision	:	22.09.2023
Version	:	2.0

#### Section: 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290
Acute toxicity, Category 4	H302
Skin corrosion, Sub-category 1B	H314
Serious eye damage, Category 1	H318

#### 2.2 Label elements

Labelling (REGULATION (EC) Hazard pictograms	) No 1272/2008)	•
Signal Word	: Danger	
Hazard Statements	: H290 H302 H314	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage.
Precautionary Statements	Prevention: P280	Wear protective gloves/ eye protection/ face protection.
	<b>Response:</b> P303 + P361 + P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305 + P351 + P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label: Phosphoric acid

#### 2.3 Other hazards

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24	Nota B Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318 Corrosive to metals Category 1; H290 Acute toxicity Category 4; H302 Serious eye damage/eye irritation Category 1 > 25 - 100 % Serious eye damage/eye irritation	>= 30 - < 50

	Category 2 > 10 - 25 % Skin corrosion/irritation Category 1B > 25 - 100 % Skin corrosion/irritation Category 2 > 10 - 25 %
For the full text of the H-S	tatements mentioned in this Section, see Section 16.
A FIDOT AID MEAO	

### Section: 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

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

Treatment
-----------

: Treat symptomatically.

### Section: 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.

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

Specific hazards during firefighting	: Not flammable or combustible.
Hazardous combustion products	<ul> <li>Depending on combustion properties, decomposition products may include following materials: Carbon oxides</li> <li>Oxides of phosphorus</li> </ul>

#### 5.3 Advice for firefighters

Special protective equipment	:	Use personal protective equipment.
for firefighters		

ANIOS RN
----------

Further information: Fire residues and contaminated fire extinguishing water must be<br/>disposed of in accordance with local regulations. In the event of<br/>fire and/or explosion do not breathe fumes.

#### Section: 6. ACCIDENTAL RELEASE MEASURES

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

Advice for non-emergency personnel	:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

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

Methods for cleaning up	p leak if safe to do so. Contain spillage, -combustible absorbent material, (e.g. omaceous earth, vermiculite) and place posal according to local / national regula sh away traces with water. For large sp therwise contain material to ensure run erway.	sand, earth, e in container for ations (see section 13). Ils, dike spilled material
-------------------------	--	--

#### 6.4 Reference to other sections

See Section 1 for emergency contact information. For personal protection see section 8. See Section 13 for additional waste treatment information.

#### Section: 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling
 Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
 Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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

ANIOS RN	
Requirements for storage areas and containers	: Keep away from strong bases. Absorb spillage to prevent material damage. Keep out of reach of children. Keep container tightly closed. Keep only in original packaging. Store in suitable labeled containers.
Storage temperature	: 5 °C to 25 °C
Packaging material	: Suitable material: Plastic material
	Unsuitable material: Mild steel, Aluminium
7.3 Specific end uses	
Specific use(s)	: Medical devices . Semi-automatic process

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Appropriate engineering controls

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m3	UKCOSSTD
		STEL	2 mg/m3	UKCOSSTD

#### 8.2 Exposure controls

Engineering measures	:	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Individual protection measure	s	
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
Eye/face protection (EN 166)	:	Safety goggles Face-shield
Hand protection (EN 374)	:	Recommended preventive skin protection Gloves Nitrile rubber butyl-rubber Breakthrough time: 1 – 4 hours Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection (EN 14605)	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing including appropriate safety shoes
Respiratory protection (EN	:	None required if airborne concentrations are maintained below the

NIOS RN		
143, 14387)	exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.	
Environmental exposure co	trols	
General advice	: Consider the provision of containment around storage vessels.	
ction: 9. PHYSICAL AND CHE	MICAL PROPERTIES	
Information on basic physic	I and chemical properties	
Appearance	: liquid	
Colour	: colourless	
Odour	: slight	
рН	: 1.0, 100 %	
Flash point	: Not applicable.	
Odour Threshold	: Not applicable and/or not determined for the mixture	
Melting point/freezing point	: Not applicable and/or not determined for the mixture	
Initial boiling point and boiling range	: Not applicable and/or not determined for the mixture	
Evaporation rate	: Not applicable and/or not determined for the mixture	
Flammability (solid, gas)	: Not applicable and/or not determined for the mixture	
Upper explosion limit	: Not applicable and/or not determined for the mixture	
Lower explosion limit	: Not applicable and/or not determined for the mixture	
Vapour pressure	: Not applicable and/or not determined for the mixture	
Relative vapour density	: Not applicable and/or not determined for the mixture	
Relative density	: 1.182 - 1.185	
Water solubility	: soluble	
Solubility in other solvents	: Not applicable and/or not determined for the mixture	
Partition coefficient: n- octanol/water	: Not applicable and/or not determined for the mixture	
Auto-ignition temperature	: Not applicable and/or not determined for the mixture	
Thermal decomposition	: Not applicable and/or not determined for the mixture	
Viscosity, kinematic	: Not applicable and/or not determined for the mixture	
Explosive properties	: Not applicable and/or not determined for the mixture	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	

### 9.2 Other information

Not applicable and/or not determined for the mixture

### Section: 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

#### 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

Mild steel Aluminium

#### **10.6 Hazardous decomposition products**

Depending on combustion properties, decomposition products may include following materials: Carbon oxides Oxides of phosphorus

#### Section: 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact
Product		
Acute oral toxicity	:	Acute toxicity estimate : 1,667 mg/kg
Acute inhalation toxicity	:	There is no data available for this product.
Acute dermal toxicity	:	There is no data available for this product.
Skin corrosion/irritation	:	There is no data available for this product.
Serious eye damage/eye irritation	:	There is no data available for this product.
Respiratory or skin sensitization	:	There is no data available for this product.
Carcinogenicity	:	There is no data available for this product.
Reproductive effects	:	There is no data available for this product.
Germ cell mutagenicity	:	There is no data available for this product.
Teratogenicity	:	There is no data available for this product.

### SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

AN	OS	RN	
AN	03	RIN	

STOT - single exposure::There is no data available for this product.STOT - repeated exposure::There is no data available for this product.Aspiration toxicity::There is no data available for this product. <b>Components</b> ::Phosphoric acid LD50 rat: > 300 mg/kgAcute oral toxicity::Phosphoric acid LD50 rat: > 300 mg/kg <b>Potential Health Effects</b> ::Causes serious eye damage.Skin::Causes serie skin burns.Ingestion::Harmful if swallowed. Causes digestive tract burns.Inhalation::May cause nose, throat, and lung irritation.Chronic Exposure::Health injuries are not known or expected under normal use.Eye contact::Redness, Pain, CorrosionSkin contact::Redness, Pain, CorrosionSkin contact:::Ingestion:::Ingestion::Inhalation::Skin contact::					
Aspiration toxicity:There is no data available for this product.ComponentsAcute oral toxicity:Phosphoric acid LD50 rat: > 300 mg/kgPotential Health EffectsEyes:Causes serious eye damage.Skin:Causes severe skin burns.Ingestion:Harmful if swallowed. Causes digestive tract burns.Inhalation:Harmful if swallowed. Causes digestive tract burns.Chronic Exposure:Health injuries are not known or expected under normal use.Eye contact:Redness, Pain, CorrosionSkin contact:Redness, Pain, CorrosionIngestion:Corrosion, Abdominal pain	STOT - single exposure	:	There is no data available for this product.		
ComponentsAcute oral toxicity: Phosphoric acid LD50 rat: > 300 mg/kgPotential Health EffectsEyes: Causes serious eye damage.Skin: Causes serious eye damage.Ingestion: Harmful if swallowed. Causes digestive tract burns.Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Eyer contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	STOT - repeated exposure	:	There is no data available for this product.		
Acute oral toxicity: Phosphoric acid LD50 rat: > 300 mg/kgPotential Health EffectsEyes: Causes serious eye damage.Skin: Causes severe skin burns.Ingestion: Harmful if swallowed. Causes digestive tract burns.Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Eye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Aspiration toxicity	:	There is no data available for this product.		
Potential Health EffectsEyes: Causes serious eye damage.Skin: Causes severe skin burns.Ingestion: Harmful if swallowed. Causes digestive tract burns.Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Experience with human expected: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Components				
Eyes: Causes serious eye damage.Skin: Causes severe skin burns.Ingestion: Harmful if swallowed. Causes digestive tract burns.Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Experience with human exposureEventEye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Acute oral toxicity	:	Phosphoric acid LD50 rat: > 300 mg/kg		
Skin: Causes severe skin burns.Ingestion: Harmful if swallowed. Causes digestive tract burns.Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Experience with human exposure:Eye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Potential Health Effects				
Ingestion: Harmful if swallowed. Causes digestive tract burns.Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Experience with human exposure:Eye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Eyes	:	Causes serious eye damage.		
Inhalation: May cause nose, throat, and lung irritation.Chronic Exposure: Health injuries are not known or expected under normal use.Experience with human exposureEye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Skin	:	Causes severe skin burns.		
Chronic Exposure: Health injuries are not known or expected under normal use.Experience with human exposureEye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Ingestion	:	Harmful if swallowed. Causes digestive tract burns.		
Experience with human exposureEye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Inhalation	:	May cause nose, throat, and lung irritation.		
Eye contact: Redness, Pain, CorrosionSkin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Chronic Exposure	:	Health injuries are not known or expected under normal use.		
Skin contact: Redness, Pain, CorrosionIngestion: Corrosion, Abdominal pain	Experience with human exposure				
Ingestion : Corrosion, Abdominal pain	Eye contact	:	Redness, Pain, Corrosion		
	Skin contact	:	Redness, Pain, Corrosion		
Inhalation : Respiratory irritation, Cough	Ingestion	:	Corrosion, Abdominal pain		
	Inhalation	:	Respiratory irritation, Cough		

### Section: 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Environmental Effects	:	This product has no known ecotoxicological effects.
Product		
Toxicity to fish	:	no data available
Toxicity to daphnia and other aquatic invertebrates	:	no data available
Toxicity to algae	:	no data available
Components		
Toxicity to daphnia and other aquatic invertebrates	:	Phosphoric acid48 h EC50 Daphnia magna (Water flea): > 100 mg/l
Components		
Toxicity to algae	:	Phosphoric acid72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

### 12.2 Persistence and degradability

#### Product

no data available

#### Components

Biodegradability

: Phosphoric acidResult: Not applicable - inorganic

#### 12.3 Bioaccumulative potential

no data available

#### 12.4 Mobility in soil

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.

#### 12.6 Other adverse effects

no data available

#### Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 13.1 Waste treatment methods

Product	:	Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
Guidance for Waste Code selection	:	Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

#### Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID) 14.1 UN number	:	1805
14.2 UN proper shipping name		PHOSPHORIC ACID SOLUTION
14.3 Transport hazard class(es)		8
14.4 Packing group	:	III
14.5 Environmental hazards	:	No
14.6 Special precautions for user	:	None
Air transport (IATA)		
14.1 UN number	:	1805
14.2 UN proper shipping	:	Phosphoric acid, solution
name 14.3 Transport hazard		8
class(es)	·	8
14.4 Packing group	:	111
14.5 Environmental hazards	:	No
14.6 Special precautions for user	:	None
Sea transport (IMDG/IMO)		
14.1 UN number	:	1805
14.2 UN proper shipping name	:	PHOSPHORIC ACID SOLUTION
14.3 Transport hazard class(es)	:	8
14.4 Packing group	:	III
14.5 Environmental hazards	:	No
14.6 Special precautions for user	:	None
14.7 Transport in bulk	:	Not applicable.
according to Annex II of MARPOL 73/78 and the IBC Code		

#### Section: 15. REGULATORY INFORMATION

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

Seveso III: Directive : Not applicable. 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Candidate List of Substances : Not applicable. of Very High Concern for Authorisation

#### **National Regulations**

#### Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations

: The Chemicals (Hazard Information and Packaging for Supply) Regulations.

The Control of Substances Hazardous to Health Regulations. Health and Safety at Work Act.

#### **15.2 Chemical Safety Assessment**

Information from the chemical safety assessment of substances present in the product is included in the appropriate sections of this safety data sheet, whenever necessary.

#### Section: 16. OTHER INFORMATION

Classification	Justification
Corrosive to metals 1, H290	Calculation method
Acute toxicity 4, H302	Calculation method
Skin corrosion 1B, H314	Calculation method
Serious eye damage 1, H318	Calculation method

#### Full text of H-Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

#### Full text of other abbreviations

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; AIIC - 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; TECI - 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

Prepared by

: Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

Annex: Exposure Scenarios