

SAFETY DATA SHEET

SIEMENS

ADVIA® Diff TIMEPAC

MSDS no. : 00739500

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

1.1 Product identifier

Product name : ADVIA® Diff TIMEPAC
Product code : 00739500, T01-3621-52, T01-3621-01, 10312270
Product description : Not available.

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

Not applicable.

1.3 Company/undertaking identification

Manufactured/supplied : Siemens Healthcare Diagnostics Limited
Sir William Siemens Square
Newton House
Camberley
Frimley
Surrey
GU16 8QD
UK

Phone: +44 (0) 1276 696000
Fax: +44 (0)1276 696133

e-mail address of person responsible for this SDS : dx.msds.healthcare@siemens.com

1.4 Emergency telephone number

: Poison Control:
In England and Wales:
NHS Direct – 0845 4647 or 111
In Scotland: NHS 24 – 08454 24 24 24
In the Republic of Ireland: 01 809 2166

CHEMTREC: 0870-8200418 (UK only)
00 + 1 + 703-527-3887 (UK & Ireland)
(International calls to the United Kingdom)

ADVIA® Diff TIMEPAC

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	ADVIA® PEROX 1	Mixture
		ADVIA® PEROX 2	Mixture
		ADVIA® PEROX 3	Mixture
		ADVIA® PEROX SHEATH	Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

ADVIA® PEROX 1

ACUTE TOXICITY	ORAL	Category 4
ACUTE TOXICITY	INHALATION	Category 4
SKIN CORROSION/IRRITATION		Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION		Category 2
SKIN SENSITIZATION		Category 1
GERM CELL MUTAGENICITY		Category 2
CARCINOGENICITY		Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Respiratory tract irritation	Category 3

ADVIA® PEROX 2

ACUTE TOXICITY	ORAL	Category 4
ADVIA® PEROX 1		The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
ADVIA® PEROX 2		The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
ADVIA® PEROX 3		The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
ADVIA® PEROX SHEATH		The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity	:	ADVIA® PEROX 1
		ADVIA® PEROX 2
		ADVIA® PEROX 3
		ADVIA® PEROX SHEATH

Ingredients of unknown ecotoxicity	:	ADVIA® PEROX 1
		ADVIA® PEROX 2
		ADVIA® PEROX 3
		ADVIA® PEROX SHEATH

Classification according to Directive 1999/45/EC [DPD]

ADVIA® PEROX 1	The product is classified as dangerous according to Directive 1999/45/EC and its amendments.
ADVIA® PEROX 2	The product is classified as dangerous according to Directive 1999/45/EC and its amendments.
ADVIA® PEROX 3	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
ADVIA® PEROX SHEATH	The product is not classified as

SECTION 2: Hazards identification

		dangerous according to Directive 1999/45/EC and its amendments.
Classification	: ADVIA® PEROX 1	Carc. Cat. 3; R40 Xn; R20/21/22 Xi; R36/37/38 R43
	ADVIA® PEROX 2	Xn; R22
	ADVIA® PEROX 3	Not classified.
	ADVIA® PEROX SHEATH	Not classified.
Physical/chemical hazards	: ADVIA® PEROX 1	Not applicable.
	ADVIA® PEROX 2	Not applicable.
	ADVIA® PEROX 3	Not applicable.
	ADVIA® PEROX SHEATH	Not applicable.
Human health hazards	: ADVIA® PEROX 1	Limited evidence of a carcinogenic effect. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.
	ADVIA® PEROX 2	Harmful if swallowed.
	ADVIA® PEROX 3	Not applicable.
	ADVIA® PEROX SHEATH	Not applicable.
Environmental hazards	: ADVIA® PEROX 1	Not applicable.
	ADVIA® PEROX 2	Not applicable.
	ADVIA® PEROX 3	Not applicable.
	ADVIA® PEROX SHEATH	Not applicable.

See Section 16 for the full text of the R phrases or H statements declared above.

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

2.2 Label elements

Hazard pictograms



Signal word

: ADVIA® PEROX 1
ADVIA® PEROX 2
ADVIA® PEROX 3
ADVIA® PEROX SHEATH

Danger
Warning
No signal word.
No signal word.

Hazard statements

: ADVIA® PEROX 1

H302 + H332 - Harmful if swallowed or if inhaled.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H350 - May cause cancer.
H341 - Suspected of causing genetic defects.
H335 - May cause respiratory irritation.

ADVIA® PEROX 2
ADVIA® PEROX 3

H302 - Harmful if swallowed.
No known significant effects or critical hazards.

ADVIA® PEROX SHEATH

No known significant effects or critical hazards.

Precautionary statements

ADVIA® Diff TIMEPAC

SECTION 2: Hazards identification

Prevention	: ADVIA® PEROX 1	P201 - Obtain special instructions before use. P280 - Wear protective gloves. Wear eye or face protection. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
	ADVIA® PEROX 2	Not applicable.
	ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable.
Response	: ADVIA® PEROX 1	P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	ADVIA® PEROX 2	P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
	ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable.
Storage	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable.
Disposal	: ADVIA® PEROX 1	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	ADVIA® PEROX 2	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable.
Hazardous ingredients	: ADVIA® PEROX 1 formaldehyde ...%	
	ADVIA® PEROX 2 DIETHYLENE GLYCOL	
Supplemental label elements	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Restricted to professional users.

2.3 Other hazards

Other hazards which do not result in classification	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	None known.
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ADVIA® Diff TIMEPAC

SECTION 2: Hazards identification

Additional information : Not available.

Not available.

SECTION 3: Composition/information on ingredients

Substance/mixture : ADVIA® PEROX 1 Mixture
 ADVIA® PEROX 2 Mixture
 ADVIA® PEROX 3 Mixture
 ADVIA® PEROX SHEATH Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
ADVIA® PEROX 1 formaldehyde	EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	>=5, <25	Carc. Cat. 2; R45 T; R23/24/25 Xn; R68 C; R34 R43	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	[1] [2]
ADVIA® PEROX 2 2,2' -oxybisethanol	EC: 203-872-2 CAS: 111-46-6 Index: 603-140-00-6	>=90	Xn; R22 See Section 16 for the full text of the R-phrases declared above.	Acute Tox. 4, H302 See Section 16 for the full text of the H statements declared above.	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : ADVIA® PEROX 1
 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

ADVIA® PEROX 2
 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

SECTION 4: First aid measures

	ADVIA® PEROX 3	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	ADVIA® PEROX SHEATH	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: ADVIA® PEROX 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	ADVIA® PEROX 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	ADVIA® PEROX 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA® PEROX SHEATH	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: ADVIA® PEROX 1	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

SECTION 4: First aid measures

	ADVIA® PEROX 2	shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	ADVIA® PEROX 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA® PEROX SHEATH	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: ADVIA® PEROX 1	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	ADVIA® PEROX 2	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	ADVIA® PEROX 3	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the

SECTION 4: First aid measures

ADVIA® PEROX SHEATH

exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders : ADVIA® PEROX 1

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

ADVIA® PEROX 2

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

ADVIA® PEROX 3

No action shall be taken involving any personal risk or without suitable training.

ADVIA® PEROX SHEATH

No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : ADVIA® PEROX 1
ADVIA® PEROX 2

Causes serious eye irritation. No known significant effects or critical hazards.

ADVIA® PEROX 3

No known significant effects or critical hazards.

ADVIA® PEROX SHEATH

No known significant effects or critical hazards.

Inhalation : ADVIA® PEROX 1

Harmful if inhaled. May cause respiratory irritation.

ADVIA® PEROX 2

No known significant effects or critical hazards.

ADVIA® PEROX 3

No known significant effects or critical hazards.

ADVIA® PEROX SHEATH

No known significant effects or critical hazards.

SECTION 4: First aid measures

Skin contact	: ADVIA® PEROX 1	Causes skin irritation. May cause an allergic skin reaction.
	ADVIA® PEROX 2	No known significant effects or critical hazards.
	ADVIA® PEROX 3	No known significant effects or critical hazards.
	ADVIA® PEROX SHEATH	No known significant effects or critical hazards.
Ingestion	: ADVIA® PEROX 1	Harmful if swallowed. Irritating to mouth, throat and stomach.
	ADVIA® PEROX 2	Harmful if swallowed.
	ADVIA® PEROX 3	No known significant effects or critical hazards.
	ADVIA® PEROX SHEATH	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: ADVIA® PEROX 1	Adverse symptoms may include the following: pain or irritation watering redness
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific data. No specific data.
Inhalation	: ADVIA® PEROX 1	Adverse symptoms may include the following: respiratory tract irritation coughing
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific data. No specific data.
Skin contact	: ADVIA® PEROX 1	Adverse symptoms may include the following: irritation redness
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific data. No specific data.
Ingestion	: ADVIA® PEROX 1	No specific data.
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3	No specific data.
	ADVIA® PEROX SHEATH	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: ADVIA® PEROX 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ADVIA® PEROX 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ADVIA® PEROX 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ADVIA® PEROX SHEATH	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 4: First aid measures

Specific treatments	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific treatment. No specific treatment. No specific treatment. No specific treatment.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso II Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
ADVIA® PEROX 1 formaldehyde Concentration >= 90%	5	50

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
ADVIA® PEROX 1 formaldehyde	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2.5 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2.5 mg/m ³ 8 hours. TWA: 2 ppm 8 hours.
ADVIA® PEROX 2 2,2' -oxybisethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 101 mg/m ³ 8 hours. TWA: 23 ppm 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

SECTION 8: Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Liquid. Liquid. Liquid. Liquid.
Colour	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Colourless. Yellow. Colourless. Colourless.
Odour	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Odourless. Bland. Odourless. Bland.
pH	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	7.2 Not applicable. Not available. Not applicable.
Melting point/freezing point	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Initial boiling point and boiling range	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Flash point	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Closed cup: 113°C Not available. Closed cup: 99°C

SECTION 9: Physical and chemical properties

Evaporation rate	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Flammability (solid, gas)	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Burning time	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable. Not applicable. Not applicable. Not applicable.
Burning rate	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not applicable. Not applicable. Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Vapour pressure	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Solubility in water	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Partition coefficient: n-octanol/ water	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Decomposition temperature	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Viscosity	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
Explosive properties	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Explosive in the presence of the following materials or conditions: oxidizing materials. Not available. Not available. Not available.
Oxidising properties	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.

9.2 Other information

SECTION 9: Physical and chemical properties

SADT	: Not available.
Aerosol product	
Type of aerosol	: Not applicable.
Heat of combustion	: Not available.
Ignition distance	: Not applicable.
Enclosed space ignition - Time equivalent	: Not applicable.
Enclosed space ignition - Deflagration density	: Not applicable.
Flame height	: Not applicable.
Flame duration	: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	: ADVIA® PEROX 1	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® PEROX 2	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® PEROX 3	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® PEROX SHEATH	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific data. No specific data. No specific data. No specific data.
10.5 Incompatible materials	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific data. No specific data. No specific data. No specific data.

ADVIA® Diff TIMEPAC

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: ADVIA® PEROX 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ADVIA® PEROX 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ADVIA® PEROX 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ADVIA® PEROX SHEATH	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ADVIA® PEROX 1 formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
ADVIA® PEROX 2 2,2'-oxybisethanol	LD50 Dermal	Rabbit	11890 mg/kg	-
	LD50 Oral	Rat	12000 mg/kg	-

Conclusion/Summary	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not available. Not available. Not available. Not available.
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Acute toxicity estimates

Route	ATE value
ADVIA® PEROX 1 Oral Dermal Inhalation (gases)	1754.4 mg/kg
	4736.8 mg/kg
	4386 ppm
ADVIA® PEROX 2 Oral	504 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ADVIA® PEROX 1 formaldehyde	Eyes - Mild irritant	Human	-	6 minutes 1 parts per million	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	750 Micrograms	-
	Skin - Mild irritant	Human	-	72 hours 150 Micrograms	-
	Skin - Severe irritant	Human	-	Intermittent 0.01 Percent	-
	Skin - Mild irritant	Rabbit	-	540 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50	-

ADVIA® Diff TIMEPAC

SECTION 11: Toxicological information

ADVIA® PEROX 2 2,2'-oxybisethanol	Skin - Severe irritant	Rabbit	-	milligrams 24 hours 2 milligrams	-
	Eyes - Mild irritant Skin - Mild irritant	Rabbit Human	- -	50 milligrams 72 hours 112 milligrams Intermittent	- -
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary

Skin : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Eyes : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Respiratory : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Sensitisation

Conclusion/Summary

Skin : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Respiratory : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Mutagenicity

Conclusion/Summary

: ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Carcinogenicity

Conclusion/Summary

: ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Reproductive toxicity

Conclusion/Summary

: ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Teratogenicity

Conclusion/Summary

: ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
ADVIA® PEROX 1 formaldehyde	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Harmful if inhaled. May cause respiratory irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Causes skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Harmful if swallowed. Irritating to mouth, throat and stomach. Harmful if swallowed. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: ADVIA® PEROX 1	Adverse symptoms may include the following: pain or irritation watering redness
	ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No specific data. No specific data. No specific data.

SECTION 11: Toxicological information

Inhalation	: ADVIA® PEROX 1	Adverse symptoms may include the following: respiratory tract irritation coughing
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3	No specific data.
	ADVIA® PEROX SHEATH	No specific data.
Skin contact	: ADVIA® PEROX 1	Adverse symptoms may include the following: irritation redness
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3	No specific data.
	ADVIA® PEROX SHEATH	No specific data.
Ingestion	: ADVIA® PEROX 1	No specific data.
	ADVIA® PEROX 2	No specific data.
	ADVIA® PEROX 3	No specific data.
	ADVIA® PEROX SHEATH	No specific data.
 <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u>		
<u>Short term exposure</u>		
Potential immediate effects	: ADVIA® PEROX 1	Not available.
	ADVIA® PEROX 2	Not available.
	ADVIA® PEROX 3	Not available.
	ADVIA® PEROX SHEATH	Not available.
Potential delayed effects	: ADVIA® PEROX 1	Not available.
	ADVIA® PEROX 2	Not available.
	ADVIA® PEROX 3	Not available.
	ADVIA® PEROX SHEATH	Not available.
 <u>Long term exposure</u>		
Potential immediate effects	: ADVIA® PEROX 1	Not available.
	ADVIA® PEROX 2	Not available.
	ADVIA® PEROX 3	Not available.
	ADVIA® PEROX SHEATH	Not available.
Potential delayed effects	: ADVIA® PEROX 1	Not available.
	ADVIA® PEROX 2	Not available.
	ADVIA® PEROX 3	Not available.
	ADVIA® PEROX SHEATH	Not available.
 <u>Potential chronic health effects</u>		
Not available.		
Conclusion/Summary	: ADVIA® PEROX 1	Not available.
	ADVIA® PEROX 2	Not available.
	ADVIA® PEROX 3	Not available.
	ADVIA® PEROX SHEATH	Not available.
General	: ADVIA® PEROX 1	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
	ADVIA® PEROX 2	No known significant effects or critical hazards.
	ADVIA® PEROX 3	No known significant effects or critical hazards.
	ADVIA® PEROX SHEATH	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Carcinogenicity	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Suspected of causing genetic defects. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Interactive effects	:	
Other information	: Not available.	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA® PEROX 1 formaldehyde	Acute EC50 0.788 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 14000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 100 µg/l Marine water	Algae - Phyllospora comosa - Zygote	96 hours
ADVIA® PEROX 2			

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SECTION 12: Ecological information

2,2' -oxybisethanol	Acute LC50 32000 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
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Conclusion/Summary : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

12.2 Persistence and degradability

Conclusion/Summary : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
ADVIA® PEROX 2 2,2' -oxybisethanol	-1.98	100	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

Mobility : ADVIA® PEROX 1 Not available.
 ADVIA® PEROX 2 Not available.
 ADVIA® PEROX 3 Not available.
 ADVIA® PEROX SHEATH Not available.

12.5 Results of PBT and vPvB assessment

PBT : ADVIA® PEROX 1 Not applicable.
 ADVIA® PEROX 2 Not applicable.
 ADVIA® PEROX 3 Not applicable.
 ADVIA® PEROX SHEATH Not applicable.

vPvB : ADVIA® PEROX 1 Not applicable.
 ADVIA® PEROX 2 Not applicable.
 ADVIA® PEROX 3 Not applicable.
 ADVIA® PEROX SHEATH Not applicable.

12.6 Other adverse effects : ADVIA® PEROX 1 No known significant effects or critical hazards.
 ADVIA® PEROX 2 No known significant effects or critical hazards.
 ADVIA® PEROX 3 No known significant effects or critical hazards.
 ADVIA® PEROX SHEATH No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : ADVIA® PEROX 1
ADVIA® PEROX 2
ADVIA® PEROX 3
ADVIA® PEROX SHEATH
Not available.

The classification of the product may meet the criteria for a hazardous waste. The classification of the product may meet the criteria for a hazardous waste. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID

14.1 UN number ADVIA® PEROX 1 Not regulated.
ADVIA® PEROX 2 Not regulated.
ADVIA® PEROX 3 Not regulated.
ADVIA® PEROX SHEATH Not regulated.

14.2 UN proper shipping name ADVIA® PEROX 1 -
ADVIA® PEROX 2 -
ADVIA® PEROX 3 -
ADVIA® PEROX SHEATH -

14.3 Transport hazard class(es) ADVIA® PEROX 1 -
ADVIA® PEROX 2 -
ADVIA® PEROX 3 -
ADVIA® PEROX SHEATH -

14.4 Packing group ADVIA® PEROX 1 -
ADVIA® PEROX 2 -
ADVIA® PEROX 3 -
ADVIA® PEROX SHEATH -

14.5 Environmental hazards ADVIA® PEROX 1 No.
ADVIA® PEROX 2 No.
ADVIA® PEROX 3 No.
ADVIA® PEROX SHEATH No.

ADVIA® Diff TIMEPAC

SECTION 14: Transport information

Additional information	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

ADN

14.1 UN number	ADVIA® PEROX 1	Not regulated.
	ADVIA® PEROX 2	Not regulated.
	ADVIA® PEROX 3	Not regulated.
	ADVIA® PEROX SHEATH	Not regulated.

14.2 UN proper shipping name	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

14.3 Transport hazard class(es)	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

14.4 Packing group	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

14.5 Environmental hazards	ADVIA® PEROX 1	No.
	ADVIA® PEROX 2	No.
	ADVIA® PEROX 3	No.
	ADVIA® PEROX SHEATH	No.

Additional information	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

IMDG

14.1 UN number	ADVIA® PEROX 1	Not regulated.
	ADVIA® PEROX 2	Not regulated.
	ADVIA® PEROX 3	Not regulated.
	ADVIA® PEROX SHEATH	Not regulated.

14.2 UN proper shipping name	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

14.3 Transport hazard class(es)	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

14.4 Packing group	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

SECTION 14: Transport information

14.5 Environmental hazards	ADVIA® PEROX 1	No.
	ADVIA® PEROX 2	No.
	ADVIA® PEROX 3	No.
	ADVIA® PEROX SHEATH	No.
Additional information	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

IATA

14.1 UN number	ADVIA® PEROX 1	Not regulated.
	ADVIA® PEROX 2	Not regulated.
	ADVIA® PEROX 3	Not regulated.
	ADVIA® PEROX SHEATH	Not regulated.
14.2 UN proper shipping name	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-
14.3 Transport hazard class(es)	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-
14.4 Packing group	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-
14.5 Environmental hazards	ADVIA® PEROX 1	No.
	ADVIA® PEROX 2	No.
	ADVIA® PEROX 3	No.
	ADVIA® PEROX SHEATH	No.
Additional information	ADVIA® PEROX 1	-
	ADVIA® PEROX 2	-
	ADVIA® PEROX 3	-
	ADVIA® PEROX SHEATH	-

14.6 Special precautions for user : ADVIA® PEROX 1

ADVIA® PEROX 2

ADVIA® PEROX 3

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

ADVIA® Diff TIMEPAC

SECTION 14: Transport information

ADVIA® PEROX SHEATH

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Restricted to professional users. Not applicable. Not applicable. Not applicable.
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Other EU regulations

Europe inventory : Not determined.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
ADVIA® PEROX 1 formaldehyde	Carc. 1B, H350	Muta. 2, H341	-	-

Seveso II Directive

ADVIA® PEROX 1 ADVIA® PEROX 2	This product is controlled under the Seveso II Directive. This product is not controlled under the Seveso II Directive.
ADVIA® PEROX 3	This product is not controlled under the Seveso II Directive.
ADVIA® PEROX SHEATH	This product is not controlled under the Seveso II Directive.

Named substances

Name

ADVIA® PEROX 1
formaldehyde Concentration >= 90%

International regulations

Chemical Weapons Convention List Schedule I Chemicals	: ADVIA® PEROX 1 ADVIA® PEROX 2 ADVIA® PEROX 3 ADVIA® PEROX SHEATH	Not listed Not listed Not listed Not listed
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ADVIA® Diff TIMEPAC

SECTION 15: Regulatory information

Chemical Weapons	:	ADVIA® PEROX 1	Not listed
Convention List Schedule II		ADVIA® PEROX 2	Not listed
Chemicals		ADVIA® PEROX 3	Not listed
		ADVIA® PEROX SHEATH	Not listed
Chemical Weapons	:	ADVIA® PEROX 1	Not listed
Convention List Schedule III		ADVIA® PEROX 2	Not listed
Chemicals		ADVIA® PEROX 3	Not listed
		ADVIA® PEROX SHEATH	Not listed

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

ADVIA® PEROX 1

Acute Tox. 4, H302
 Acute Tox. 4, H332
 Skin Irrit. 2, H315
 Eye Irrit. 2, H319
 Skin Sens. 1, H317
 Muta. 2, H341
 Carc. 1B, H350
 STOT SE 3, H335

Calculation method
 Calculation method
 Calculation method
 Calculation method
 Calculation method
 Calculation method
 Calculation method
 Calculation method

ADVIA® PEROX 2

Acute Tox. 4, H302

Calculation method

Full text of abbreviated H statements

ADVIA® PEROX 1

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

ADVIA® PEROX 2

H302	Harmful if swallowed.
------	-----------------------

SECTION 16: Other information

Full text of classifications [CLP/GHS] : **ADVIA® PEROX 1**
 Acute Tox. 2, H330 ACUTE TOXICITY: INHALATION - Category 2
 Acute Tox. 3, H301 ACUTE TOXICITY: ORAL - Category 3
 Acute Tox. 3, H311 ACUTE TOXICITY: SKIN - Category 3
 Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4
 Acute Tox. 4, H332 ACUTE TOXICITY: INHALATION - Category 4
 Carc. 1B, H350 CARCINOGENICITY - Category 1B
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 Muta. 2, H341 GERM CELL MUTAGENICITY - Category 2
 Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

Full text of abbreviated R phrases : **ADVIA® PEROX 2**
 Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4
 : R45- May cause cancer.
 R40- Limited evidence of a carcinogenic effect.
 R23/24/25- Also toxic by inhalation, in contact with skin and if swallowed.
 R22- Also harmful if swallowed.
 R20/21/22- Also harmful by inhalation, in contact with skin and if swallowed.
 R68- Also possible risk of irreversible effects.
 R34- Causes burns.
 R36/37/38- Irritating to eyes, respiratory system and skin.
 R43- May cause sensitisation by skin contact.

Full text of classifications [DSD/DPD] : Carc. Cat. 2 - Carcinogen category 2
 Carc. Cat. 3 - Carcinogen category 3
 T - Toxic
 C - Corrosive
 Xn - Harmful
 Xi - Irritant

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Version : 4

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.