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SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: PH-1 Na Amino Acid Buffer
Product code	: ANO-8706
Other means of identification	: PH-1 Buffer for L-8800(A)\L-8900
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Use of the substance/mixture	: Buffer
1.3. Details of the supplier of the safety d	ata sheet
ADS Biotec Inc. 7409 Irvington Road Omaha, NE 68122 - USA support@adsbiotec.com	
1.4. Emergency telephone number	
Emergency Contact Number	: USA: 1-800-255-3924 (CHEMTEL 24hr); International: +1-813-248-0585 (CHEMTEL 24hr)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	xture
GHS-US classification	
Flam. Liq. 3 H226	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS02 GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapour
Precautionary statements (GHS-US)	 P1220 Frammasic inquire trade to topolar P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P280 - Wear protective gloves, protective clothing, eye protection, face protection P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P403+P235 - Store in a well-ventilated place. Keep cool
2.3. Other hazards	
Other hazards not contributing to the classification	: May cause eye irritation. Repeated or prolonged contact may cause skin irritation. May cause irritation to the respiratory tract.
2.4. Unknown acute toxicity (GHS-US)	
No data available	
SECTION 3: Composition/information	n on ingredients
3.1. Substance	
Not applicable	
Full text of H-phrases: see section 16	

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			~	
Name		Product identifier	%	GHS-US classification
Ethanol Citric A		(CAS No) 64-17-5 (CAS No) 77-92-9	10 - 20 1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
		(CA3 N0) 77-92-9	1-5	Lye Init. 2A, 11319
SECTI	ON 4: First aid measures			
4.1.	Description of first aid measures			
-irst-aid		Never give anything by mouth to an u (show the label where possible).	Inconscious person. I	f you feel unwell, seek medical advic
First-aid		Remove to fresh air, keep the patient attention.	warm and at rest. If s	symptoms develop obtain medical
First-aid		Rinse skin with water/shower. Removes symptoms develop obtain medical att		ely all contaminated clothing. If
-irst-aid		Rinse immediately with plenty of wate easy to do. Continue rinsing. If symptotic		
First-aid		Rinse mouth. Do NOT induce vomitir obtain medical attention.	ng. Give 100 - 200 ml	of water to drink. If symptoms develo
4.2.	Most important symptoms and effects, I	both acute and delayed		
Symptor	ns/injuries :	Not expected to present a significant	hazard under anticipa	ated conditions of normal use.
4.3.	Indication of any immediate medical atte	ention and special treatment neede	ed	
	mptomatically.			
SECT	ON 5: Firefighting measures			
5.1.	Extinguishing media			
		Foam. Dry powder. Carbon dioxide. \	Nater spray Sand	
		Do not use a heavy water stream.	and spray. Sanu.	
		•		
5.2.	Special hazards arising from the substa			
Fire haz		Flammable liquid and vapour.		
	1	On exposure to high temperature, ma flammable/explosive vapour-air mixtu		ing explosive vapours. May form
Reactivi	ty :	Stable under normal conditions.		
5.3.	Advice for firefighters			
-irefight		Use water spray or fog for cooling ex chemical fire. Avoid fire-fighting wate	r enteing the environr	nent.
Protectio		Fire fighters should wear complete pr apparatus.	otective clothing inclu	iding self-contained breathing
SECTI	ON 6: Accidental release measure	es		
6.1.	Personal precautions, protective equipr			
		Avoid contact with eyes, skin and clo	thing.	
6 4 4	For non-omorganou norganizat	-		
6.1.1. Emorgo	For non-emergency personnel			
_mergel	ncy procedures :	Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
Protectiv	ve equipment :	Wear suitable protective clothing and	eye or face protectio	n.
Emerge		Remove ignition sources. Avoid conta ventilation.	act with eyes, skin an	d clothing. Ensure adequate
6.2.	Environmental precautions			
Avoid re	lease to the environment. Notify authorities it	iliquid enters sewers or public waters	6.	
5.3.	Methods and material for containment a	nd cleaning up		
	s for cleaning up : .	Absorb with earth, sand or other non- disposal. Use non-sparking tools. Wa		
6.4.	Reference to other sections			

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.
Hygiene measures	: Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including any incompatibilities	
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container tightly closed.
Incompatible products	: Acids. Strong bases. Metals. Oxidizing agent. Reducing agents. combustible materials.
Incompatible products	: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

A buffer used for amino acid analysis by HPLC in a professional diagnostic or research laboratory.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls	
Appropriate engineering controls	: Ensure adequate ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	 In case of inadequate ventilation: Use an approved air purifying respirator to control exposure. Follow respirator protection requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Not normally required.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties	
Physical state	: Liquid	
Appearance	: Clear.	
Colour	: Colourless.	
Odour	: characteristic.	
Odour threshold	: No data available	
рН	: 3.1	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: -114 °C -173 °F	
Freezing point	: No data available	
Boiling point	: 79 °C 174 °F	
Flash point	: 44 °C 111 °F	
Self ignition temperature	: > 363 °C >685 °F	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: 44.6 mm Hg @ 20 °C (68 °F)	
Relative vapour density at 20 °C	: 1.6	
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Physical state	: Liquid
Relative density	: 1
Solubility	: Miscible with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 3.3 - 19 vol %

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity			
10.1. Reactivity			
Stable under normal conditions.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
Flammable liquid and vapour.			
10.4. Conditions to avoid			
Extremely high or low temperatures. Direct sunlight. Open flame. Overheating. Heat. Sparks.			
10.5. Incompatible materials			
Acids. metals. Strong bases. Oxidizing agents. Reducing agents. Strong acids.			
10.6. Hazardous decomposition products			
Carbon monoxide. Carbon dioxide.			

SECT	ON 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity

: Not classified

Citric acid (77-92-9)		
LD50 oral rat	3 g/kg	
Ethanol (64-17-5)		
LD50 oral rat	7060 mg/kg	
LC50 inhalation rat (ppm)	20000 ppm 10 H	
Skin corrosion/irritation	: Not classified	
	pH: 3.1	
Serious eye damage/irritation	: Not classified	
	pH: 3.1	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
exposure)	Based on available data, the classification criteria are not met	

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cording to Federal Register / Vol. 77, No. 58 / Monday, I	: Not classified
spiration hazard	
otential Adverse human health effects and	Based on available data, the classification criteria are not met : Based on available data, the classification criteria are not met.
/mptoms	
ECTION 12: Ecological information	
2.1. Toxicity	
cology - general	: Not classified.
cology general	
2.2. Persistence and degradability	
PH-1 (L-8800 (A) AAA Buffer 1)	
Persistence and degradability	No information available.
2.3. Bioaccumulative potential	
PH-1 (L-8800 (A) AAA Buffer 1)	
Bioaccumulative potential	No information available.
2.4. Mobility in soil	
PH-1 (L-8800 (A) AAA Buffer 1)	
Ecology - soil	No information available.
2.5. Other adverse effects	
ther information	: Avoid release to the environment.
ECTION 13: Disposal consideration	S
3.1. Waste treatment methods	
	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
	: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to
Vaste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of
Vaste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to
Vaste disposal recommendations additional information icology - waste materials	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container toHandle empty containers with care because residual vapours are flammable.
Vaste disposal recommendations additional information scology - waste materials SECTION 14: Transport information	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container toHandle empty containers with care because residual vapours are flammable.
Vaste disposal recommendations dditional information icology - waste materials SECTION 14: Transport information in accordance with DOT	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container toHandle empty containers with care because residual vapours are flammable.
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information n accordance with DOT IN-No.(DOT)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment.
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information n accordance with DOT IN-No.(DOT)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment.
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information n accordance with DOT N-No.(DOT) IOT Proper Shipping Name repartment of Transportation (DOT) Hazard	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment.
Vaste disposal recommendations additional information Scology - waste materials SECTION 14: Transport information In accordance with DOT IN-No.(DOT) DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Vaste disposal recommendations additional information icology - waste materials SECTION 14: Transport information in accordance with DOT JN-No.(DOT) DOT Proper Shipping Name Department of Transportation (DOT) Hazard	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment.
Vaste disposal recommendations additional information Scology - waste materials SECTION 14: Transport information In accordance with DOT IN-No.(DOT) DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information accordance with DOT N-No.(DOT) OT Proper Shipping Name repartment of Transportation (DOT) Hazard lasses	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information n accordance with DOT IN-No.(DOT) POT Proper Shipping Name Department of Transportation (DOT) Hazard classes	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information n accordance with DOT IN-No.(DOT) IOT Proper Shipping Name repartment of Transportation (DOT) Hazard lasses lazard labels (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information accordance with DOT N-No.(DOT) OT Proper Shipping Name lepartment of Transportation (DOT) Hazard lasses azard labels (DOT) OT Symbols	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid G - Identifies PSN requiring a technical name
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information accordance with DOT N-No.(DOT) OT Proper Shipping Name epartment of Transportation (DOT) Hazard lasses azard labels (DOT) OT Symbols acking group (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid G - Identifies PSN requiring a technical name II - Medium Danger
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information accordance with DOT N-No.(DOT) OT Proper Shipping Name epartment of Transportation (DOT) Hazard lasses azard labels (DOT) OT Symbols acking group (DOT) OT Packaging Exceptions (49 CFR 173.xxx)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid G - Identifies PSN requiring a technical name
Vaste disposal recommendations Additional information Scology - waste materials SECTION 14: Transport information In accordance with DOT IN-No.(DOT) DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid G - Identifies PSN requiring a technical name II - Medium Danger 150
Vaste disposal recommendations Additional information Scology - waste materials SECTION 14: Transport information In accordance with DOT IN-No.(DOT) DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Symbols Packing group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid G - Identifies PSN requiring a technical name II - Medium Danger 150 202 242
Vaste disposal recommendations Additional information icology - waste materials SECTION 14: Transport information In accordance with DOT IN-No.(DOT) DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard labels (DOT) DOT Symbols Packaging group (DOT) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to : Handle empty containers with care because residual vapours are flammable. : Avoid release to the environment. : 1993 : FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : 3 - Flammable liquid : G - Identifies PSN requiring a technical name : II - Medium Danger : 150 : 202 : 242 : 5 L
Vaste disposal recommendations dditional information icology - waste materials ECTION 14: Transport information n accordance with DOT IN-No.(DOT) OT Proper Shipping Name Department of Transportation (DOT) Hazard classes lazard labels (DOT) OT Symbols Packaging Exceptions (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx) OT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27) OT Quantity Limitations Cargo aircraft only (49	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 4 4 5 L
Vaste disposal recommendations dditional information icology - waste materials SECTION 14: Transport information n accordance with DOT IN-No.(DOT) OT Proper Shipping Name Department of Transportation (DOT) Hazard classes lazard labels (DOT) OT Symbols Packaging Exceptions (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx) OT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Handle empty containers with care because residual vapours are flammable. Avoid release to the environment. 1993 FLAMMABLE LIQUIDS, N.O.S. (Ethanol Mixture) 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 4 4 5 L

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Additional information	
Other information	: Not classified.
Special transport precautions	: No special precautions required.
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S. (Ethanol Mixture)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting Medium danger
Air transport	
UN-No.(IATA)	: 1993
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, N.O.S. (Ethanol Mixture)
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Citric acid (77-92-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

PH-1 (L-8800 (A) AAA Buffer 1)		
WHMIS Classification	Class B Division 2 - Flammable Liquid	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

15.2.2. National regulations

Ethanol (64-17-5)	
Listed on IARC (International Agency for Research on Cancer)	

15.3. US State regulations

Ethanol (64-17-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

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SECTION 16: Other information	
Abbreviations and acronyms	: ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route). CAS (Chemical Abstracts Service) number. IARC (International Agency for Research on Cancer). IATA (International Air Transport Association). IMDG (International Maritime Dangerous Goods Code). RID (Règlement concernant le transport international ferroviaire de marchandises).
Other information	: None.

Full text of H-phrases: see section 16:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H319	Causes serious eye irritation

NCEC SDS US GHS (Hazcom 2012)

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.