

Safety data sheet according to U.S.A. Federal Hazcom 2012

1. Identification

1.1. Product identifier

DETERDEK Product name

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

Acid descaling floor cleaning. Intended use

Identified Uses	Industrial	Professional	Consumer	
Uses	~	~	√	
	Ť	Ť	Ť	
1.3. Details of the supplier of the safety d	ata sheet			
Name	Fila Chemicals US	Α		

Full address

10800 NW 21st St Ste # 170 District and Country Miami, FL 33172 Tel. (305) 513-0708

Fax. (305) 513-0728

e-mail address of the competent person responsible for the Safety Data Sheet

sds@filasolutions.com

1.4. Emergency telephone number

800-424-9300 CHEMTREC For urgent inquiries refer to

2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

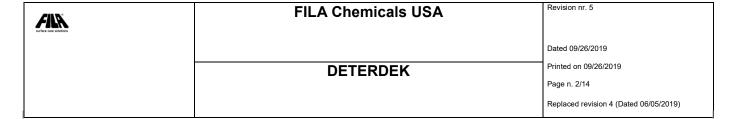
Classification and Hazard Statement

Hazard pictograms:

Skin corrosion, category 1 Causes severe skin burns and eye damage.

Causes serious eye Serious eye damage, category 1 damage.





Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention:

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

Wear protective gloves/ protective clothing / eye protection / face protection. P280

P264 Wash hands thoroughly after handling.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.

P310 Immediately call a POISON CENTER / doctor / . . .

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse. Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents / container in accordance with local/regional/national/international regulation.

2.2. Other hazards

Information not available

3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification PHOSPHORIC ACID	x = Conc. %	Classification:	Trade Secret:
CAS 7664-38-2	22 ≤ x < 24	Substance or mixture corrosive to metals, category 1 H290, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318	§
EC 231-633-2		3 7	

INDEX 015-011-00-6

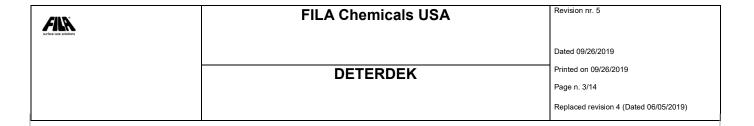
Alcohols, C12-14, ethoxylates

CAS 68439-50-9 1 ≤ x < 1.5 Acute toxicity, category 4 H302, Serious eye damage, § category 1 H318, Hazardous to the aquatic environment,

chronic toxicity, category 3 H412

EC

INDEX -



Note: Upper limit is not included into the range.

§ the exact percentage (concentration) of composition has been withheld as a trade secret.

The full wording of the hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

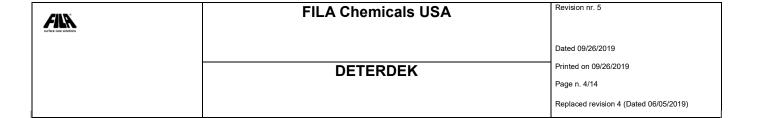
5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).



6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

USA NIOSH-REL NIOSH publication No. 2005-149, 3th printing, 2007.

USA OSHA-PEL Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.

USA CAL/OSHA-PEL California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).

EU OEL EU Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2018



Revision nr. 5

Dated 09/26/2019

Printed on 09/26/2019

Page n. 5/14

Replaced revision 4 (Dated 06/05/2019)

DETERDEK

PHOSPHORIC ACID						
Threshold Limit Valu	ie					
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	1		3		
OEL	EU	1		2		,
OSHA	USA	1				
CAL/OSHA	USA	1		3		,
NIOSH	USA	1		3		,

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

For the final choice of material for work gloves, the following must be considered: compatibility, degradation, breakage time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. Gloves have a wear time that depends on the duration and method of use

Chemical resistant gloves are recommended. Viton, minimum thickness 0.71 mm or a material with protective barrier with high performance level for continuous contact conditions, minimum permeation / rupture in 480 minutes according to the OSHA 29 CFR 1910.138 standards.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

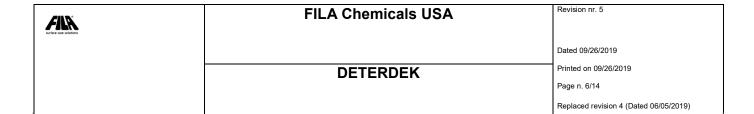
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



Appearance liquid
Colour transparent

Odour Typical princkly smell with

floral fragrance
Odour threshold Not available

рН

Melting point / freezing point

Initial boiling point

Not available

Boiling range

Not available

Flash point

Not available

>199.40°F (> 93 °C)

Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Relative density Not available soluble in water Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available Explosive properties not applicable Oxidising properties not applicable

9.2. Other information

Information not available

10. Stability and reactivity

10.1. Reactivity

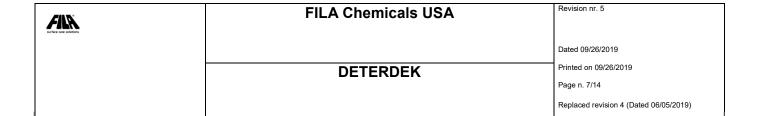
There are no particular risks of reaction with other substances in normal conditions of use.

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.



10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

None.

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, gases and vapors can be released that are potentially harmful to health.

PHOSPHORIC ACID

May develop: phosphoryl oxides.

11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

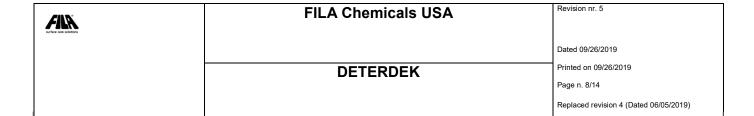
Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects



Information not available

ACUTE TOXICITY

PHOSPHORIC ACID

LD50 (Oral) 1530 mg/kg Rat

LD50 (Dermal) 2740 mg/kg Rabbit

LC50 (Inhalation) > 0.85 mg/l/1h Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

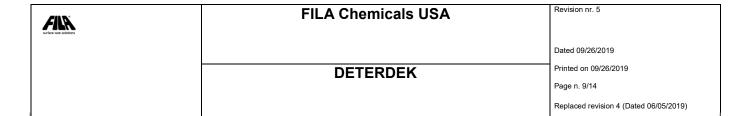
Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

Information not available

12.2. Persistence and degradability

PHOSPHORIC ACID

Solubility in water > 850000 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

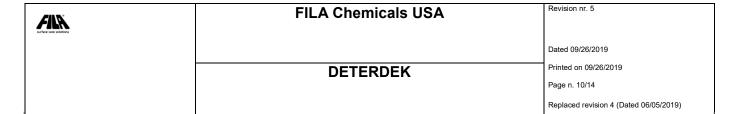
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

Product is NOT regulated under DOT/TDG and other transportation regulations.

Rail and Truck Shipments
DOT Shipping Name:
DOT ID Number
DOT Hazard Class & Packing

PHOSPHORIC ACID SOLUTION UN 1805 8 Corrosive Packing Group III



Group

DOT Shipping Label Corrosive

May be shipped as consumer commodity

TDG Shipping Name: PHOSPHORIC ACID, LIQUID

TDG ID Number UN 1805

TDG DOT Hazard Class & Packing 8 Corrosive Packing Group III

Group

TDG Shipping Label Corrosive

Water Shipments
IMO Shipping Name: PHOSPHORIC ACID SOLUTION IMO ID Number UN 1805

IMO DOT Hazard Class & Packing 8 Corrosive Packing Group III

Group

IMO Shipping Label Corrosive IMO EMS F-A, S-B

Air Shipments

PHOSPHORIC ACID SOLUTION IATA Shipping Name:

IATA ID Number UN 1805

IATA DOT Hazard Class & Packing 8 Corrosive Packing Group III

Group

IATA Shipping Label Corrosive

IATA Packing Instructions 856 Maximum quantity: 60 L Cargo:

Passenger: 852 Maximum quantity: 5 L

> Y841 Maximum quantity: 1 L (limited quantity)

15. Regulatory information

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

U.S. Federal Regulations

TSCA:

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b):

7664-38-2 PHOSPHORIC ACID (Phosphorous

compounds)

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

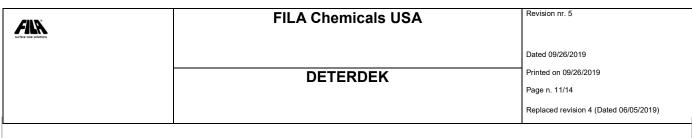
Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act -Priority Pollutants:

No component(s) listed.

Clean Water Act -



			rage II. 11/14
			Replaced revision 4 (Dated 06/05/2019)
Toxic Pollutants:			
No component(s) listed.			
DEA List I Chemicals (Precursor Chem	nicals):		
No component(s) listed.			
DEA List II Chemicals (Essential Chem	<u>nicals)։</u>		
No component(s) listed.			
EPA List of Lists:			
313 Category Code: No component(s) listed.			
EPCRA 302 EHS TPQ:			
No component(s) listed.			
EPCRA 304 EHS RQ:			
No component(s) listed.			
CERCLA RQ:			
7664-38-2		PHOSPHORIC ACID (Phosphorous compounds)	
EPCRA 313 TRI:			
No component(s) listed.			
RCRA Code:			
No component(s) listed.			
CAA 112 (r) RMP TQ:			
No component(s) listed.			
State Regulations			
Massachussetts:			
7664-38-2		PHOSPHORIC ACID (Phosphorous compounds)	
Minnesota:		•	
7664-38-2		PHOSPHORIC ACID (Phosphorous compounds)	
New Jersey:			

	cetter care sulctions	FILA Chemicals USA	Revision nr. 5	
			Dated 09/26/2019	l
		DETERDEK	Printed on 09/26/2019	l
			Page n. 12/14	
Į			Replaced revision 4 (Dated 06/05/2019)	l

7664-38-2 PHOSPHORIC ACID (Phosphorous

compounds)

New York:

7664-38-2 PHOSPHORIC ACID (Phosphorous

compounds)

Pennsylvania:

7664-38-2 PHOSPHORIC ACID (Phosphorous

compounds)

California:

7664-38-2 PHOSPHORIC ACID (Phosphorous

compounds)

Proposition 65:

International Regulations

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Canadian WHMIS

Information not available

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H290 May be corrosive to metals.H302 Harmful if swallowed.

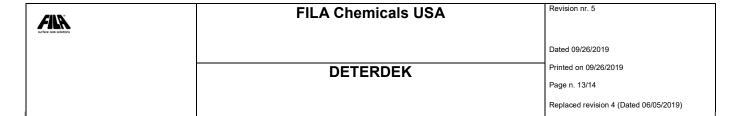
H304 May be fatal if swallowed and enters airways.H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

LEGEND

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008



- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

FIR	FILA Chemicals USA	Revision nr. 5
		Dated 09/26/2019
	DETERDEK	Printed on 09/26/2019
		Page n. 14/14
		Replaced revision 4 (Dated 06/05/2019)
		1

	DETERDEK	Page n. 14/14 Replaced revision 4 (Dated 06/05/2019)
04 / 08 / 16.		