	FILA Chemicals USA	Revision nr. 3
		Dated 8/5/2015
	DETERDEK	Printed on 08/05/2015
		Page n. 1/12
Safety data	sheet according to U.S.A. Federa	al Hazcom 2012
SECTION 1. Identification	of the substance/mixture and of the company/	undertaking
1.1. Product identifier Product name	DETERDEK	
	e substance or mixture and uses advised against descaling floor cleaner.	
1.3. Details of the supplier of the sa Name Full address District and Country	ifety data sheet Fila Chemicals USA 10800 NW 21st St Ste # 170 Miami, FL 33172 Tel. (305) 513-0708	
	Fax. (305) 513-0728	
	filausa@filasolutions.com	
e-mail address of the competent pers	son	
responsible for the Safety Data Shee	sds@filasolutions.com	
1.4. Emergency telephone number For urgent inquiries refer to	800-424-9300 CHEMTREC	

SECTION 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. Skin corrosion, category 1B Serious eye damage, category 1

Causes severe skin burns and eye damage. Causes serious eye damage.

Hazard pictograms:



Danger

Hazard statements:

Signal words:

Prevention: P260 Do not breathe dust / f P264 Wash hands thorough P280 Wear protective gloves Response: P301+P330+P331 IF SWALLOWED: rins P303+P361+P353 IF ON SKIN (or hair): t P304+P340 IF INHALED: remove [P305+P351+P338 IF IN EYES: rinse cau rinsing. P310 Immediately call a PO P321 Specific treatment (see P363 Wash contaminated cl Storage: P405 Store locked up. Disposal: P501 Dispose of contents / of 2.2. Other hazards. The product is not classified as hazardous for environ SECTION 3. Composition/informa 3.1. Substances. nformation not relevant. 3.2. Mixtures.	urns and eye damage fume / gas / mist / va ily after handling. 's / protective clothing se mouth. Do not indu take off immediately person to fresh air ar tiously with water for PISON CENTER / doo te on this label). lothing before reuse.	pours / spray. g / eye protection / face protection. uce vomiting. all contaminated clothing. Rinse ski nd keep comfortable for breathing. several minutes. Remove contact le ctor /	enses, if present and easy to do. Continue
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SECTION 3. Composition/informa 3.1. Substances. Information not relevant. 3.2. Mixtures.			ation 1272/2008 (CLP).
Contains:			
Identification.	Conc. %.	Classification:	Trade Secret:
PHOSPHORIC ACID			
CAS. 7664-38-2	20 - 25	Substance or mixture corrosive to metals, category 1 H290, Skin corrosion, category 1B H314	§
Alcohols, secondary C11-15, ethoxylated			
CAS. 68131-40-8	1 - 3	Acute toxicity, category 4 H302, Serious eye damage, category 1 H318	Ş
Note: Upper limit is not included into the range.			
§ the exact percentage (concentration) of compositi	ion has been withhel	d as a trade secret.	
The full wording of the hazard (H) phrases is given	in section 16 of the s	heet.	
SECTION 4. First aid measures.			

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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.

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

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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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. 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.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 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-

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EU OEL	L/OSHA-PEL Calif Perr - EU Dire Dire	0.1000. fornia Division of Occupational Safety and Health nissible Exposure Limits (PELs). ctive 2009/161/EU; Directive 2006/15/EC; Directiv ctive 2000/39/EC. GIH 2014	

PHOSPHORIC ACID					
Threshold Limit Value.					
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	

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must comply with current regulations.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). 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 and 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.

SECTION 9. Physical and chemical properties.

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9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation rate Flammability (solid, gas) Lower inflammability limit. Upper inflammability limit. Lower explosive limit.	liquid transparent "Prickly' floral odor Not available. 1 Not available. Not available. >199.40°F (> 93 °C) Not available. Not available. Not available. Not available. Not available.
Vapour pressure. Vapour density Relative density. Solubility	Not available. Not available. 1,129 Kg/l soluble in water
Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties Oxidising properties	Not available. Not available. Not available. Not available. Not available. Not available. Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

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.

10.4. Conditions to avoid.

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

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10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours.

Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

PHOSPHORIC ACID LD50 (Oral).1530 mg/kg Rat LD50 (Dermal).2740 mg/kg Rabbit LC50 (Inhalation).> 0,85 mg/l/1h Rat

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity. Information not available.

12.2. Persistence and degradability.

Alcohols, secondary C11-15, ethoxylated Rapidly biodegradable.

PHOSPHORIC ACID

Solubility in water.

> 850000 mg/l

Biodegradability: Information not available.

A	LA.
surface ca	re solutions

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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.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to transport hazardous materials according to the provisions set out in the current regulations of the U.S. DOT, Canadian TDG, the IMDG and IATA.

<u>Rail and Truck Shipments</u> DOT Shipping Name: DOT ID Number DOT Hazard Class &	PHOSPHORIC ACID SOLUTION UN 1805 8 Corrosive Packing Group III
Packing Group	6 Conosive Facking Group III
DOT Shipping Label	Corrosive
	May be shipped as consumer commodity
TDC Chinging News	
TDG Shipping Name: TDG ID Number	PHOSPHORIC ACID, LIQUID UN 1805
TDG DOT Hazard Class &	8 Corrosive Packing Group III
Packing Group	
TDG Shipping Label	Corrosive
Water Shipments	
IMO Shipping Name:	PHOSPHORIC ACID SOLUTION
IMO ID Number	UN 1805

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IMO DOT Hazard Class &	8 Corrosive Packing Group III	
Packing Group IMO Shipping Label	Corrosive	
IMO EMS	F-A, S-B	
<u>Air Shipments</u> IATA Shipping Name:	PHOSPHORIC ACID SOLUTION	
IATA ID Number IATA DOT Hazard Class &	UN 1805 8 Corrosive Packing Group III	
Packing Group IATA Shipping Label	Corrosive	
IATA Packing Instructions	Cargo: 856 Maximum quantity: 60 Passenger: 852 Maximum quantity: 5 L	
		_ (limited quantity)
SECTION 15. Regulatory	information.	
15.1. Safety, health and environme	ntal regulations/legislation specific for the substance or mixtu	ure.
J.S. Federal Regulations. SCA Inventory Status		
Ill ingredients are listed on the TSCA I	nventory.	
Clean Air Act Section 112(b):		
7664-38-2	PHOSPHORIC ACID (Phosphorous compounds)	
Clean Air Act Section 602 Class I Subs		
lo component(s) listed		
lo component(s) listed. Clean Air Act Section 602 Class II Subs	stances:	
Clean Air Act Section 602 Class II Subs	stances:	
Clean Air Act Section 602 Class II Subs	stances:	
Clean Air Act Section 602 Class II Subs lo component(s) listed. Clean Water Act –	stances:	
Clean Air Act Section 602 Class II Subs lo component(s) listed. <u>Clean Water Act –</u> Priority Pollutants:	<u>stances:</u>	
Clean Air Act Section 602 Class II Subs lo component(s) listed. Clean Water Act – Priority Pollutants: No component(s) listed. Clean Water Act – Toxic Pollutants:	<u>stances:</u>	
Ilean Air Act Section 602 Class II Subs lo component(s) listed. Ilean Water Act – Priority Pollutants: No component(s) listed. Ilean Water Act – Foxic Pollutants: lo component(s) listed.		
lean Air Act Section 602 Class II Subs lo component(s) listed. <u>Priority Pollutants:</u> No component(s) listed. <u>Iean Water Act –</u> <u>Toxic Pollutants:</u> lo component(s) listed. <u>EA List I Chemicals (Precursor Chem</u>		
Clean Air Act Section 602 Class II Subs lo component(s) listed. <u>Clean Water Act –</u> <u>Priority Pollutants:</u> No component(s) listed. <u>Clean Water Act –</u>	<u>icals):</u>	
Clean Air Act Section 602 Class II Subs lo component(s) listed. Clean Water Act – Priority Pollutants: No component(s) listed. Clean Water Act – Toxic Pollutants: lo component(s) listed. DEA List I Chemicals (Precursor Chem lo component(s) listed.	<u>icals):</u>	
Clean Air Act Section 602 Class II Subs lo component(s) listed. <u>Clean Water Act –</u> <u>Priority Pollutants:</u> No component(s) listed. <u>Clean Water Act –</u> <u>Toxic Pollutants:</u> lo component(s) listed. <u>DEA List I Chemicals (Precursor Chem</u> lo component(s) listed.	<u>icals):</u>	

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<u>PA List of Lists:</u>		
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)	
<u>Minnesota:</u>	compounds)	
7664-38-2	PHOSPHORIC ACID (Phosphorous compounds)	
<u>New Jersey:</u>		
7664-38-2	PHOSPHORIC ACID (Phosphorous compounds)	
<u>New York:</u>		
7664-38-2	PHOSPHORIC ACID (Phosphorous compounds)	
Pennsylvania:		
7664-38-2	PHOSPHORIC ACID (Phosphorous compounds)	
<u>California:</u>		

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7664-38-2		PHOSPHORIC ACID (Phosphorous compounds)		
Proposition 65:		compounds)		
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.				
Candadian WHMIS.				
Information not available.				
SECTION 16. Other information.				
Current Issue Date Previous Issue Date	05-08-2015 12-30-2010			
Previous rev. number	2 Revision according to Federa	N Horeen 2012		
Changes in current issue	_			
Text of hazard (H) indications mentioned in section 2-3 of the sheet:				

Met. Corr. 1	Substance or mixture corrosive to metals, category 1	
Acute Tox. 4	Acute toxicity, category 4	
Asp. Tox. 1	Aspiration hazard, category 1	
Skin Corr. 1B	Skin corrosion, category 1B	
Skin Corr. 1C	Skin corrosion, category 1C	
Eye Dam. 1	Serious eye damage, category 1	
Eye Irrit. 2	Eye irritation, category 2	
Skin Irrit. 2	Skin irritation, category 2	
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.	
H319	Causes serious eye irritation.	
H315	Causes skin irritation.	

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®)

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 CLP: EC Regulation 1272/2008 DEA: Drug Enforcement Administrati EmS: Emergency Schedule EPA: US Environmental Protection A EPCRA: Emergency Planning and C EPCRA 302 EHS TPQ: Extremely Ha EPCRA 304 EHS RQ: Extremely Ha EPCRA 313 TRI: Toxics Release Inv GHS: Globally Harmonized System C 	red to induce a 50% effect) Comprehensive Environment Response, Compensation, and Liability Act) on agency ommunity Right-to Know Act azardous Substance Threshold Planning Quantity (Section 302 Category Code) zardous Substance Reportable Quantity (Section 304 Category Code) rentory (Section 313 Category Code) of classification and labeling of chemicals rt Association Dangerous Goods Regulation 50% or dangerous goods	e)		
 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 VOC: Volatile organic Compounds WHMIS: Workplace Hazardous Materials Information System. 				
GeNERAL BIBLIOGRAPHY: - GHS rev. 3 - The Merck Index. 10th Edition + Handling Chemical Safety - Nissh - Registry of Toxic Effects of Chemical Substances - INRS - Fiche Toxicologique (toxicological sheet) - Patty - Industrial Hygiene and Toxicology - NI. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition - ECHA website - 6 NYCRR part 597 - Call/OSHA website - Callfornia Safe Drinking Water and Toxic Enforcement Act - EPA website - Callfornia Safe Drinking Water and Toxic Enforcement Act - EPA website - List of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act - Massachussetts 105 CMR Department of public health 670.000: "Right to Know" - Minersota Chapter 5206 Departement of public health 670.000: "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 - OSHA website - Pensylvania, 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.				