

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

1.1. Product identifier

Product form : Mixture
Name : TOPKLEAN EL 20P
Product code : 050055500

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Cleaning product

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

INVENTEC PERFORMANCE CHEMICALS SA
20 rue de Bourgogne
P.O. Box CS 10165
69800 SAINT-PRIEST - France
T +33 (0) 4 72 28 13 00 - F +33 (0) 4 72 28 13 41
ContactFDS@inventec.dehon.com

Other

FRIGOGAZ Climalife kft Hungary
Villányi út 47
1118 Budaörs - Hungary
T (36) 23 431 660 - F (36) 23 431 661
ContactFDS@inventec.dehon.com

Other

INVENTEC PERFORMANCE CHEMICALS ITALIA S.R.L.
Via Pusterla, 8
20013 Magenta - Milano - Italia
T (39) 02 48 40 12 06 - F (39) 02 48 46 13 41
ContactFDS@inventec.dehon.com

Other

INVENTEC PERFORMANCE CHEMICALS Switzerland
Z.I. Petits Champs 15 Yverdon Sud
CH-1400 Yverdon-les-Bains - Switzerland
T 41(0) 24 424 80 90 - F 41(0) 24 424 80 99
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Other

DKF GERMANY / INVENTEC
Robert - Bosch - Strasse 14
40668 Meerbusch - Germany
T +49 (0)21 50 70 73 00 - F + 49 (0)21 50 70 73 17
ContactFDS@inventec.dehon.com

Other

INVENTEC PERFORMANCE CHEMICALS ESPAÑA
Perez Pujol, 4 - 2º
46002 Valencia - Spain
T (34) 96 353 51 93 - F (34) 96 353 51 92
ContactFDS@inventec.dehon.com

Other

INVENTEC Performance Chemicals Netherlands BV
Van Konijnenburgweg 84
4612 PL Bergen op zoom - Netherlands
T (31) 164 212 840 - F (31) 164 212 841
ContactFDS@inventec.dehon.com

1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315
Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards not contributing to the classification : Combustible liquid.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
phosphoric acid ... %, orthophosphoric acid ... % substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, BG, CH, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MT, NL, NO, PL, PT, RO, SE)	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	<3	Skin Corr. 1B, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
phosphoric acid ... %, orthophosphoric acid ... %	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 =<C < 25) Eye Irrit. 2, H319 (10 =<C < 25) Skin Irrit. 2, H315 (25 =<C < 100) Skin Corr. 1B, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. Seek medical attention if ill effect develops.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophtalmologist if irritation persists.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.

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

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Combustible liquid.

5.3. Advice for firefighters

Protection during firefighting : Complete protective clothing. Self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate area. Evacuate the danger area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Contain the spilled material by bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spilled material with sand or earth.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed.

Storage conditions : Store in a well-ventilated place. Keep cool.

Incompatible materials : Strong acids. Alkalis and caustic products. Oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)		
EU	Local name	Orthophosphoric acid
EU	IOELV TWA (mg/m³)	1 mg/m³
EU	IOELV STEL (mg/m³)	2 mg/m³
Austria	Local name	Phosphorsäure
Austria	MAK (mg/m³)	1 mg/m³
Austria	MAK Short time value (mg/m³)	2 mg/m³
Belgium	Local name	Acide phosphorique
Belgium	Limit value (mg/m³)	1 mg/m³
Belgium	Short time value (mg/m³)	2 mg/m³
Bulgaria	Local name	Ортофосфорна киселина•
Bulgaria	OEL TWA (mg/m³)	1 mg/m³
Bulgaria	OEL STEL (mg/m³)	2 mg/m³
Czech Republic	Local name	Kyselina fosfore ná
Czech Republic	Expoziční limity (PEL) (mg/m³)	1 mg/m³
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	2 mg/m³
Denmark	Local name	Phosphorpentasulfid
Denmark	Grænseværdie (langvarig) (mg/m³)	1 mg/m³
Denmark	Anmærkninger (DK)	E
Estonia	Local name	Fosforhape, (ortofosforhape) aur
Estonia	OEL TWA (mg/m³)	1 mg/m³

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phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)		
Estonia	OEL STEL (mg/m³)	2 mg/m³
Finland	Local name	Fosforihappo
Finland	HTP-arvo (8h) (mg/m³)	1 mg/m³
Finland	HTP-arvo (15 min)	2 mg/m³
France	Local name	Acide phosphorique
France	VME (mg/m³)	1 mg/m³
France	VME (ppm)	0,2 ppm
France	VLE (mg/m³)	2 mg/m³
France	VLE (ppm)	0,5 ppm
Germany	TRGS 900 Local name	Orthophosphorsäure
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	2 mg/m³
Germany	TRGS 900 Remark	DFG,EU,AGS,Y
Germany	TRGS 910 Acceptable concentration notes	
Greece	OEL TWA (mg/m³)	1 mg/m³
Greece	OEL STEL (mg/m³)	3 mg/m³
Hungary	Local name	ORTOFOSZFORSAV
Hungary	AK-érték	1 mg/m³
Hungary	CK-érték	2 mg/m³
Hungary	Megjegyzések (HU)	m; EU1
Ireland	Local name	Orthophosphoric acid
Ireland	OEL (8 hours ref) (mg/m³)	1 mg/m³
Ireland	OEL (15 min ref) (mg/m³)	2 mg/m³
Ireland	Notes (IE)	IOELV
Italy	Local name	Acido ortofosforico
Italy	OEL TWA (mg/m³)	1 mg/m³
Italy	OEL STEL (mg/m³)	2 mg/m³
Latvia	Local name	Fosforskābe (ortofosforskābe)
Latvia	OEL TWA (mg/m³)	1 mg/m³
Latvia	OEL STEL (mg/m³)	2 mg/m³
Lithuania	Local name	Fosforo rūgštis, orto-
Lithuania	IPRV (mg/m³)	1 mg/m³
Lithuania	TPRV (mg/m³)	2 mg/m³
Luxembourg	Local name	Acide phosphorique
Luxembourg	OEL TWA (mg/m³)	1 mg/m³
Luxembourg	OEL STEL (mg/m³)	2 mg/m³
Malta	Local name	Orthophosphoric acid
Malta	OEL TWA (mg/m³)	1 mg/m³
Malta	OEL STEL (mg/m³)	2 mg/m³
Netherlands	Local name	Fosforzuur
Netherlands	Grenswaarde TGG 8H (mg/m³)	1 mg/m³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	2 mg/m³
Poland	Local name	Kwas fosforowy(V)
Poland	NDS (mg/m³)	1 mg/m³
Poland	NDSch (mg/m³)	2 mg/m³

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phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)		
Portugal	Local name	Ácido fosfórico
Portugal	OEL TWA (mg/m³)	1 mg/m³
Portugal	OEL - Ceilings (mg/m³)	3 mg/m³
Romania	Local name	Acid ortofosforic
Romania	OEL TWA (mg/m³)	1 mg/m³
Romania	OEL STEL (mg/m³)	2 mg/m³
Slovenia	Local name	fosforjeva kislina
Slovenia	OEL TWA (mg/m³)	1 mg/m³
Slovenia	OEL STEL (mg/m³)	2 mg/m³
Spain	Local name	Ácido ortofosfórico
Spain	VLA-ED (mg/m³)	1 mg/m³
Spain	VLA-EC (mg/m³)	2 mg/m³
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.). s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para unainformación detallada acerca de las prohibiciones consúltese:Base de datos de productos biocidas:http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidasBase de datos de productos fitosanitarios:http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf)
Sweden	Local name	Phosphoric acid
Sweden	nivågränsvärde (NVG) (mg/m³)	1 mg/m³
Sweden	kortidsvärde (KTV) (mg/m³)	3 mg/m³
United Kingdom	Local name	Orthophosphoric acid
United Kingdom	WEL TWA (mg/m³)	1 mg/m³
United Kingdom	WEL STEL (mg/m³)	2 mg/m³
Iceland	Local name	Fosfórsýra
Iceland	OEL (8 hours ref) (mg/m³)	1 mg/m³
Iceland	OEL (15 min ref) (mg/m³)	2 mg/m³
Norway	Local name	Fosforsyre
Norway	Grenseverdier (AN) (mg/m³)	1 mg/m³
Switzerland	Local name	Acide phosphorique
Switzerland	MAK (mg/m³)	1 mg/m³
Switzerland	KZGW (mg/m³)	2 mg/m³
Switzerland	Remark	4x15
USA - ACGIH	Local name	Phosphoric acid
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
USA - ACGIH	ACGIH STEL (mg/m³)	3 mg/m³
USA - ACGIH	Remark (ACGIH)	URT, eye, & skin irr

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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Hand protection:
Chemically resistant protective gloves. Protective gloves made of PVC. Nitrile rubber gloves
Eye protection:
Safety glasses with side shields
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

Other information:

Safety shower. Eye fountain.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colourless to slightly yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 140 °C
Flash point	: 62,5 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,88 g/cm³ (20°C)
Solubility	: In water, material is partially soluble.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive material according to EC criteria.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat or source of heat. Sparks.

10.5. Incompatible materials

Strong acids. Alkalis and caustic products. Oxidizer.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)

LD50 oral rat	3160 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable.
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)

LC50 fish 1	3 - 3,25 mg/l 96 Hours (Lepomis macrochirus)
EC50 Daphnia 1	> 100 mg/l 48 Hours (Daphnia magna)
EC50 72h algae (1)	> 100 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA
14.1. UN number		
Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated

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14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		
14.6. Special precautions for user		
Overland transport		
Not regulated		
Transport by sea		
Not regulated		
Air transport		
Not regulated		
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code		
Not applicable		

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Germany

Reference to AwSV

: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

Denmark

Class for fire hazard

: Class III-1

Store unit

: 50 liter

Classification remarks

: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

All chapters have been modified since the previous version.

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Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product