

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name: DCR  
Commercial code: 40.114  
UFI code: YDTJ-G3P0-F00C-FY7J

**1.2 Identified uses of the substance or mixture and uses advised against**

Detergent  
Use: Professional

Uses advised against  
Do not use for uses other than those indicated

**1.3 Details of the supplier of the safety data sheet**

Company name: Silpar TK snc  
Address: Via Rosa Luxemburg 12/14  
10093 - Collegno (TO)  
Telephone: +39 011 7791177  
Fax: +39 011 7791177  
Email: sicurezza@silpartkline.com

**1.4 Emergency telephone number**

CAVp "Osp. Pediatrico Bambino Gesù - Roma Tel. +39 06 68593726  
Az. Osp. Univ. Foggia Tel. +39 0881 732326  
Az. Osp. "A. Cardarelli" – Napoli Tel. +39 081 7472870  
CAV Policlinico "Umberto I" – Roma Tel. +39 06 49978000  
CAV Policlinico "A. Gemelli" – Roma Tel. +39 06 3054343  
Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze Tel. +39 055 7947819  
CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. +39 0382 24444  
Osp. Niguarda Ca' Granda – Milano Tel. +39 02 66101029  
Azienda Ospedaliera Papa Giovanni XXII – Bergamo Tel. +39 800 883300  
Azienda Ospedaliera Universitaria Integrata Verona Tel. +39 800 011858

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Reg. EU n°1272/2008 [CLP]**

Met. Corr. 1; H290  
Acute Tox. 4; H302  
Skin Corr. 1B; H314

**2.2 Label elements**

Hazard pictograms:



Signal word: Danger

Hazard statements: H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage

Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/ vapours/spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/ protective clothing / eye protection / face protection.
- 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 [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/ national/international regulations

Regulation (EC) No. 648/2004:

<5% Anionic surfactants. > 30% Phosphates.

Contains: Phosphoric Acid

2.3 Other hazards

Substance vPvB: None - Substance PBT: None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

N.A.

3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification 1272/2008 (CLP)
1. 7664-38-2 2. 231-633-2 3. 015-011-00-6 4. 01-2119485924-24-XXXX	Phosphoric acid	30-50	Met. Corr. 1 H290 Acute Tox. 4 H302 Skin Corr. 1B H314
1. 107-98-2 2. 203-539-1 3. 603-064-00-3 4. 01-2119457435-35-XXXX	1-methoxypropan-2-ol	3-5	Flam. Liq. 3 H226, STOT SE 3 H336

The full text of the H phrases is given in section 16 of the safety data sheet

**SECTION 4: FIRST AID MEASURES**

4.1 Description of first aid measures

- Eye contact Remove contact lenses, if present. Wash immediately with plenty of water for at least 30 minutes, opening the eyelids fully. If problem persists, seek medical advice.
- Skin contact Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.
- Ingestion Get medical advice/attention. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.
- Inhalation Remove to open air. If unwell, contact a doctor.

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



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Treat symptomatically.

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### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

#### **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).

### **SECTION 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**

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 compliance with the provisions set forth in point 13.

#### **6.4 Reference to other sections**

Refer to sections 8 and 13.

### **SECTION 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)**

See section 1.2

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure Limits****Phosphoric acid**

EU Consolidated List of Indicative Occupational Exposure Values (VLIIEP)

TWA: 1 mg / m<sup>3</sup>STEL: 2 mg / m<sup>3</sup>

Occupational Exposure Limits Italy

TWA: 1 mg / m<sup>3</sup>STEL: 2 mg / m<sup>3</sup>**1-methoxypropan-2-ol**

EU Consolidated List of Indicative Occupational Exposure Values (VLIIEP)

TWA: 100 ppm / 375 mg / m<sup>3</sup>STEL: 568 mg / m<sup>3</sup> / 100 ppm

Occupational Exposure Limits

TWA: 100 ppm / 375 mg / m<sup>3</sup>STEL: 568 mg / m<sup>3</sup> / 100 ppm**Derived No effect level (DNEL)****Phosphoric acid**Inhalation 10.7 mg / m<sup>3</sup> (Systemic, chronic)Inhalation 1 mg / m<sup>3</sup> (Local, chronic)Inhalation 2 mg / m<sup>3</sup> (Local, acute)Inhalation 4.57 mg / m<sup>3</sup> (Systemic, chronic) \*

Oral 0.1 mg / kg bw / day (Systemic, chronic) \*

Inhalation 0.36 mg / m<sup>3</sup> (Local, chronic) \***1-methoxypropan-2-ol**

Dermal 183 mg / kg bw / day (Systemic, chronic)

Inhalation 369 mg / m<sup>3</sup> (Systemic, chronic)Inhalation 553.5 mg / m<sup>3</sup> (Systemic, acute)Inhalation 553.5 mg / m<sup>3</sup> (Local, acute)

Dermal 78 mg / kg bw / day (Systemic, chronic) \*

Inhalation 43.9 mg / m<sup>3</sup> (Systemic, chronic) \*

Oral 33 mg / kg bw / day (Systemic, chronic) \*

\* Values that refer to the population

**Predicted No Effect Concentration (PNEC)****1-methoxypropan-2-ol**

10 mg / L (Fresh water)

1 mg / L (Water - intermittent release)

100 mg / L (Water (Marine))

52.3 mg / kg sediment dw (Sediment (Freshwater))

5.2 mg / kg sediment dw (Sediments (Marine))

4.59 mg / kg soil dw (Soil)

100 mg / L (STP)

**8.2 Exposure controls**

## Hands protection

Protective gloves in nitrile rubber compliant with standard EN 374 Glove thickness: 0.11 mm. For the final choice of the material of the work gloves it is necessary to consider: 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 not foreseeable. Gloves have a wear time that depends on the duration and method of use.

Respiratory protection

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type ABEK filter combined with a type P filter should be worn (see standard EN 14387). 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.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or when the exposure levels are unknown or the concentration of oxygen in the work environment is less than 17% by volume, wear an open-circuit compressed air self-contained breathing apparatus (ref. standard EN 137) or respirator with external air intake for use with a full face mask, half mask or mouthpiece (ref. standard EN 138). Provide an eye wash and emergency shower system.

The product must be used in highly ventilated environments and in the presence of strong localized aspirations, otherwise use the personal protective equipment indicated

Eye and face protection

Wear protective goggles (see standard EN 166).

Body and skin protection:

Wear professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance:	Liquid
Colour:	Green
Odour:	Almond
Odour threshold:	N.A.
pH:	1.5
Melting point/freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.
Vapour density (Air=1):	N.A.
Relative density (Water=1):	1,1 Kg/l
Solubility(ies):	Soluble
Partition coefficient: n-octanol/water:	N.A.
Auto-ignition temperature (°C):	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	Non-explosive product
Oxidising properties:	N.A.

**9.2 Other information**

Information not available

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

It can give a violent reaction. In contact with water an exothermic reaction can occur. In contact with reactive metals (mild steel, aluminum, etc.) hydrogen (explosive) can develop. Reaction with reducing agents.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

When mixing with water, do not let the mixture reach too high temperatures. Add the acid to the water slowly and with simultaneous stirring.

**10.4 Conditions to avoid**

Avoid exposing the product to high temperatures.

1-methoxy-2-propanol:

The product can decompose on exposure to high temperatures. Gas formation during decomposition can cause compression in closed systems. Avoid electrostatic discharges.

**10.5 Incompatible materials**

Ammonia. Reactive metals. Strong bases.

**10.6 Hazardous decomposition products**

Toxic compounds of phosphorus.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Unless otherwise specified, the data required by Regulation (EU) 2015/830 indicated below are to be understood N.A.:

(a) acute toxicity;

Phosphoric acid

LD50 (Oral) > 300 - 2000 mg / kg bw / day Rat

LD50 (Dermal) 2740 mg / kg bw / day Rabbit

Subacute oral toxicity

NOAEL (C) (Oral) 250 mg / kg (Rat)

1-methoxypropan-2-ol

1-methoxypropan-2-ol

LD50 (Oral) > 2000 mg / kg

LD50 (Dermal) > 5000 mg / kg

(b) skin corrosion/irritation;

The product is classified as Skin Corr. 1B; H314

(c) serious eye damage/irritation;

(d) respiratory or skin sensitisation;

(e) germ cell mutagenicity;

(f) carcinogenicity;

(g) reproductive toxicity;

Phosphoric acid

NOAEL > 500 mg / kg bw / day (Rat)

(h) STOT-single exposure;

(i) STOT-repeated exposure;

(j) aspiration hazard.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Endpoint	Duration	Species	Value
<b>Phosphoric acid</b>			
LC50	96h	Leuciscus idus melanotus	3 - 3,25 pH
EC50	48h	Daphnia magna	> 100 mg/l
EC50	72h	Desmodesmus subspicatus	>100mg/l
<b>1-methoxypropan-2-ol</b>			
EC50	72h	Algae	>500mg/l
EC50	48h	Crustaceans	23300mg/l
LC50	96h	Fish	>=1000mg/l
EC50	96h	Algae	>1000mg/l

**12.2 Persistence and degradability**

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1-methoxypropan-2-ol

The material is easily biodegradable. Pass the (I) OECD test for immediate biodegradability.

10-day window period: OK

Biodegradation: 96%

Exposure time: 28 d

Method: OECD 301E test method guideline or equivalent

Photodegradation

Test type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 7.8 h

Method: estimated.

### 12.3 Bioaccumulative potential

1-methoxypropan-2-ol

The bioconcentration potential is low (BCF <100 or Log Pow <3).

Partition coefficient: n-octanol / water (log Pow): 0.37 at 20 ° C Measured

Bioconcentration factor (BCF): <2.

### 12.4 Mobility in soil

1-methoxypropan-2-ol

The potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 0.2 - 1.0 estimated.

### 12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data 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. Waste transportation may be subject to ADR restrictions. CONTAMINATED PACKAGING

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

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR / RID, IMDG, IATA: 3264

ADR exemption because the following characteristics are met:

Combined packaging: internal packaging 5 L package 30 Kg

Internal packaging arranged in trays with shrink or stretch film: internal packaging 5 L package 20 Kg

### 14.2 UN proper shipping name

ADR / RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)

IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)

IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Phosphoric acid)

### 14.3 Transport hazard class(es)

ADR / RID: Class: 8 Label: 8





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IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

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### 14.4 Packing group

ADR / RID, IMDG, IATA: III

### 14.5 Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

### 14.6 Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Pass.:	Maximum quantity: 1 L	Packaging instructions: 851
	Special Instructions:	A3, A803	

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

## **SECTION 15: REGULATORY INFORMATION**

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

Seveso Category - Directive 2012/18/EC:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Point 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

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.

Regolamento (CE) Nr. 1357/2014 - rifiuti:

HP8 – Corrosive

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the following contained substances:

Phosphoric acid

1-methoxypropan-2-ol

### **SECTION 16: OTHER INFORMATION**

#### **Full text of H codes mentioned in sections 2 - 3**

H226 Flammable liquid and vapour

H290 May be corrosive to metals

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H336 May cause drowsiness or dizziness

#### **LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- 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
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- 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.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

#### **GENERAL BIBLIOGRAPHY**

- Regulation (EU) 1907/2006 of the European Parliament (REACH)
- Regulation (EU) 1272/2008 of the European Parliament (CLP)
- Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
- Regulation (EU) 2015/830 of the European Parliament
- Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
- Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
- Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
- Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
- Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- Regulation (EU) 1272/2015 of the European Parliament (VII Atp. CLP)
- Regulation (EU) 918/2016 of the European Parliament (VIII Atp. CLP)
- Regulation (EU) 1179/2016 of the European Parliament (IX Atp. CLP)
- Regulation (EU) 1221/2015 of the European Parliament (X Atp. CLP)
- Regulation (EU) 669/2018 of the European Parliament (XI Atp. CLP)
- Regulation (EU) 1480/2018 of the European Parliament (XIII Atp. CLP)



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The Merck Index. - 10th Edition

Handling Chemical Safety

INRS - Fiche Toxicologique (toxicological sheet)

Patty - Industrial Hygiene and Toxicology

N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

ECHA website

### 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.

Difference with the previous version:

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