

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

1.1. Product identifier

Name of the substance	Cleaner D
Identification number	200-664-3 (EC number)
Other means of identification	
Article Number	1070088208
Registration number	-
Synonyms	None.
Issue date	07-February-2020
Version number	2.0
Revision date	20-December-2022
Supersedes date	07-February-2020

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

Identified uses	Cleaner
Uses advised against	Other uses not recommended.

1.3. Details of the supplier of the safety data sheet

Supplier	Canon (UK) Ltd
Address	4 Roundwood Avenue, Stockley Park, Uxbridge, UB11 1AF, U.K.
Telephone number	01895 648000
E-mail address	sds-hq@cpp.canon

1.4. Emergency telephone number

NCEC Service	+44 (0) 1235 239 670 For chemical emergencies only. (Available 24 hours a day.)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:	Dimethyl sulfoxide
Hazard pictograms	None.
Signal word	None.
Hazard statements	The substance does not meet the criteria for classification.

Precautionary statements

Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.

Supplemental label information None.

2.3. Other hazards

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dimethyl sulfoxide	75 - 100	67-68-5 200-664-3	-	-	

Classification: -

List of abbreviations and symbols that may be used above

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	None known.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Foam. Powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Keep unnecessary personnel away.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Professional and Industrial

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. See operator manual or safety data sheet of the printer.

Individual protection measures, such as personal protective equipment

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Not normally needed.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Glove material: Nitrile. Minimum glove thickness 0.12 mm. Ansell Microflex ® 93-260 (60 minutes) 0.12 mm
- Other	Not required during normal intended use of this product.
Respiratory protection	Not required during normal intended use of this product.
Thermal hazards	Not normally needed.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Contain spills and prevent releases and observe national regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Colourless.
Odour	Very faint.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	16 - 19 °C (60.8 - 66.2 °F) / 18.45 °C (65.21 °F)
Initial boiling point and boiling range	189 °C (372.2 °F)
Flash point	95.0 °C (203.0 °F) Open cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	2.6 %
Explosive limit - upper (%)	Not available.
Vapour pressure	0.55 hPa (20 °C (68 °F)) 4.1 hPa (25 °C (77 °F))
Vapour pressure temp.	50 °C (122 °F)
Vapour density	2.71
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	-1.35

Auto-ignition temperature	301 °C (573.8 °F)
Decomposition temperature	> 190 °C (> 374 °F)
Viscosity	1.98 mPa·s
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Density	1.10 g/cm ³
Molecular formula	C ₂ -H ₆ -O-S
Molecular weight	78
Percent volatile	100 %
Specific gravity	1.1 at 20 °C
Surface tension	42.93 dyn/cm (25 °C (77 °F))
VOC	100 % 2010/75/EU @20°C

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Alkali metals. Isocyanates.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation Health injuries are not known or expected under normal use. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

OECD TG 403
Result: Negative.

Eye contact Dust may irritate the eyes. Based on available data, the classification criteria are not met.

Skin contact No adverse effects due to skin contact are expected.

Ingestion Health injuries are not known or expected under normal use.

Symptoms Dusts may irritate the respiratory tract, skin and eyes.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Product	Species	Test Results
Dimethyl sulfoxide (CAS 67-68-5)		
Acute		
Dermal		
LD50	Rat	> 40000 mg/kg bw/day
Oral		
LD50	Rat	> 20000 mg/kg bw/day

Skin corrosion/irritation Health injuries are not known or expected under normal use.

Irritation Corrosion - Skin

OECS TG 404
Result: Negative.

Serious eye damage/eye irritation Health injuries are not known or expected under normal use.

Eye

OECD 405
Result: Negative.

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Sensitisation
OECD406
Result: Negative.

Germ cell mutagenicity Chilean Spanish went out in Job 18-0024189, French and German were reviewed under 17-0023466 and Hindi under 17-0023485

Germ cell mutagenicity: Ames test
OECD471
Result: Negative.

Germ cell mutagenicity: Chromosome Aberration
OECD473
Result: Negative.

Germ cell mutagenicity: Micronucleus
OECD474
Result: Negative.

Carcinogenicity No data available to indicate product or any components present at greater than 0.1% are carcinogenic.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Reproductivity
OECD TG 421
Result: Negative.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.
OECD TG 413
Result: Negative.

Aspiration hazard Not an aspiration hazard. Based on available data, the classification criteria are not met.

Mixture versus substance information No information available.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Product	Species	Test Results
Dimethyl sulfoxide (CAS 67-68-5)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)	>= 33000 - <= 37000 mg/l, 96 hours

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)
-1.35

Bioconcentration factor (BCF)
< 4

12.4. Mobility in soil This product is miscible in water and may not disperse in soil.

12.5. Results of PBT and vPvB assessment This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Disposal Considerations: EU waste codes 15 01 02 - plastic packaging

EU waste code

16 03 06 organic wastes other than those mentioned in 16 03 05

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.**Special precautions** Dispose in accordance with all applicable regulations.**SECTION 14: Transport information****ADR**

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Retained direct EU regulations****Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

Restrictions on use**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Dimethyl sulfoxide (CAS 67-68-5)

Other EU regulations**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.**SECTION 16: Other information****List of abbreviations**

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TWA: Time Weighted Average.
vPvB: Very persistent and very bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not applicable.

Full text of any H-statements not written out in full under Sections 2 to 15

None.

Revision information

SECTION 8: Exposure controls/personal protection: - Hand protection
Physical & Chemical Properties: Multiple Properties
SECTION 9: Physical and chemical properties: Appearance
SECTION 16: Other information: List of abbreviations
HazReg Data: Pacific Rim

Training information

Follow training instructions when handling this material.

Disclaimer

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation and is believed to be accurate. It provides guidance on health, safety and environmental aspects of the product and should neither be construed as any guarantee of specific properties nor of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1. This document was prepared to the requirements of the jurisdiction in Section 1 and may not meet regulatory requirements in other countries or territories. The information contained in this safety data sheet does not replace the user's own assessment of workplace risks, as required by applicable health and safety legislation.