

Product description: KORTHO CLEANER GJ5, 200CM3

1. IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE COMPANY/BUSINESS

1.1 Product identifications

Product name : Kortho cleaner GJ5, 200 cm3
Internal code number : 083872
Product description : Cleaner/Flush for printing processes

1.2 Relevant identified use of the substance or the mixture and use that is advised against

Main use category : Professional use
Industrial/ Professional use spec : Industrial. For professional use only
Identified use : Printing ink cleaner/flush
Uses advised against : No additional information available

1.3 Details relating to the provider of the safety data sheet

Company : B.V. Korthofah
Lageweg 39
2222AG Katwijk ZH
The Netherlands
Telephone : 0031 71 40 60 480
E-mail address : export@kortho.nl

1.4 Telephone number in case of emergencies

Emergency telephone number : 111
Organisation/company : National Poisons Information Service (NHS Direct) – <http://www.npis.org>
(England, Wales and Northern Ireland - NHS 111 and Scotland - NHS 24)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or the mixture

Product definition : mixture

Classification in accordance with directive (EC) No. 1272/2008

Aspiration hazard, (Category 1), H304

For the full text on H statements as set out in this section, see section 16.

See section 11 for more detailed information on health effects and symptoms.

2.2 Labelling elements

According to Regulation (EC) No 1272/2008 [CLP]

Hazard Pictogram :



Signal Word : Danger
Hazardous ingredients : White mineral oil (petroleum)
Hazard Statement(s) : H304 - May be fatal if swallowed and enters the airways.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P405 Store locked up.

Child-resistant fastening : No.
Tactile warning : No.

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2.3 Other hazards

Adverse physicochemical, human health and environmental effects : May be fatal if swallowed and enters airways.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

<u>Component</u>	<u>Identifiers</u>	<u>Cont.%</u>	<u>Regulation (EC) No</u>
White mineral oil (petroleum)	EC: 232-455-8 CAS: 8042-47-5	>=50%	1272/2008 [CLP] Asp.Tox. 1, H304
Glycerol	EC: 200-289-5 CAS: 56-81-5	1-20%	Not classified

See section 16 for the full text of the H statements declared above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
In case of inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
In case of skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
In case of eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
In case of ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. Risk of lung oedema.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishers

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for fire-fighters

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. MEASURES IN THE EVENT OF THE ACCIDENTAL RELEASE OF THE SUBSTANCE OR PREPARATION

6.1 Personal precautions, protective equipment and emergency procedures

For non emergency personnel
Emergency procedures : Ventilate spillage area.

For emergency responders
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions
Avoid release to the environment.

6.3 Containment and cleaning methods and materials

Methods for cleaning up : Take up liquid spill into absorbent material.

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

6.4 Reference to other sections
For further information refer to section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance or mixture

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : 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

Storage conditions : Store locked up. Store in a well ventilated place away from : Direct sunlight, Heat and ignition sources

7.3 Specific end use(s)
No additional information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

White mineral oil (petroleum) (8042-47-5)

Belgium Limit value (mg/m³)

5 mg/m³ (Huiles minérales (brouillards); Belgium; Time-weighted average exposure limit 8 h)

Belgium Short time value

10 mg/m³ (Huiles minérales (brouillards); Belgium; Short time value)

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Netherlands	Grenswaarde TGG 8H (mg/m ³)	5 mg/m ³ (Olienevel (minerale olie); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
USA – ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (Mineral oil, pure, highly and severely refined; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)
Glycerol (56-81-5)		
Belgium	Local name	Glycérine (brouillard)
Belgium	Limit value (mg/m ³)	10 mg/m ³ (Glycérine (brouillard); Belgium; Time-weighted average exposure limit 8 h)
Croatia	Local name	Glicerol
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
Czech Republic	Local name	Glycerol, mlha
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	2,4 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	15 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	3,7 ppm
Estonia	Local name	Glütseriin (glütserool, 1,2,3-propaantriool)
Estonia	OEL TWA (mg/m ³)	10 mg/m ³
Finland	Local name	Glyseroli
Finland	HTP-arvo (8h) (mg/m ³)	20 mg/m ³
France	Local name	Glycérine (aérosols de)
France	VME (mg/m ³)	10 mg/m ³ (Glycérine (aérosols de); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Ireland	Local name	Glycerol, mist
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Poland	Local name	Glicerol aerozole
Poland	NDS (mg/m ³)	10 mg/m ³
Portugal	Local name	Glicerina, névoas
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Spain	Local name	Glicerina
Spain	VLA-ED (mg/m ³)	10 mg/m ³ nieblas
United Kingdom	Local name	Glycerol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ Glycerol, mist; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Switzerland	Local name	Glycérine
Switzerland	VME (mg/m ³)	50 mg/m ³
Switzerland	VLE (mg/m ³)	100 mg/m ³
Switzerland	Remark (CH)	4x15
Australia	Local name	Glycerin mist
Australia	TWA (mg/m ³)	10 mg/m ³
Australia	Remark (AU)	(a)
USA – ACGIH	Local name	Glycerin mist
USA – ACGIH	Remark (ACGIH)	URT irr

8.2 Measures to control exposure

Appropriate engineering

Controls

: Ensure good ventilation of the work station. Provide adequate general and local exhaust ventilation.

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Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Do not eat, drink or smoke during use.

Eye/face protection

: Face protection and safety goggles. Use face and/or eye protection tested and approved by official organisations such as NIOSH (US) or EN166 (EU).

Skin protection

Hand protection

: Handle with gloves. Properly check gloves before use. Carefully remove gloves without touching the outside with your exposed hand. Immediately throw away used gloves in accordance with the valid laboratory regulations. Wash and dry your hands. The protective gloves must comply with the specifications of EU Directive 89/686/EEC and the standard EN 374, which has been derived from this. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Glove material: Nitrile*
Thickness of material: 0.4 ± 0.05mm
Penetration time: 480 minutes
(* Tested glove Nitrile I – KCL 0730)

Body protection

: Impenetrable clothing, flame-retardant, anti-static protective clothing. The type of protective features depends on the concentration and quantity of hazardous substances in the workplace in question.

Material: Kleenguard
Type: T7 LAB (jacket) – T6 5ultra (suit)
Characteristics: EN1149-1 antistatic, non-heat retaining, protective clothing to prevent incendiary discharge. Clothing with a limited service life, which provides protection against chemicals and protects certain parts of the body:
- immediately throw clothing away after use;
- immediately throw damaged clothing away;
- strictly observe the operating instructions, which is supplied with the clothing.

Should unexpected contamination of the clothing worn under the protective clothing occur, then it should immediately be taken off and thrown away.

Respiratory protection

: Whenever there are breathing risks, where necessary use a full-face respirator combined with (US) and/or type ABEK (EN 14387) breathing pattern as a support when undertaking a factory inspection. If the face mask is the only means of protection, use a full-face respirator (oxygen mask). Use respirators tested and approved by official government bodies such as NIOSH (US) or CEN (EU).

Environmental exposure controls

: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information about physical and chemical basic properties

Physical state : Liquid.
Colour : Clear. Amber.
Odour : Mild.
Odour threshold : No data available.
Melting point : Not applicable.
Freezing point : No data available.
Boiling point : > 93 °C.
Flash point : > 93 °C.
pH : No data available.
Relative evaporation rate (butylacetate = 1) : No data available.
Vapour pressure : No data available.
Relative density : No data available.
Density : No data available.
Relative vapour density at 20°C : No data available.
Solubility(ies) : No data available.
Log Pow : No data available.
Log Kow : No data available.

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Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Not applicable.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

9.2 Other safety information
No additional information available.

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 Potential hazardous reactions**
No dangerous reactions known under normal conditions of use.
- 10.4 Conditions to be avoided**
None under recommended storage and handling conditions (see section 7).
- 10.5 Incompatible materials**
No additional information available.
- 10.6 Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Information about toxicological effects

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

White mineral oil (petroleum) (8042-47-5)

LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (Rat; Experimental value)

Glycerol (56-81-5)

LD50 oral rat	27200 mg/kg (Rat; Experimental value)
LC50 inhalation rat (mg/l)	> 2,75 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
Specific target organ toxicity (single exposure)	: Not classified.
Specific target organ toxicity (repeated exposure)	: Not classified.
Aspiration hazard	: May be fatal if swallowed and enters airways.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

White mineral oil (petroleum) (8042-47-5)

LC50 fish 1 > 100 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Static system; Fresh water; Experimental value)
EC50 Daphnia 1 > 100 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1 >= 100 mg/l (NOEL; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Weight of evidence)

Glycerol (56-81-5)

LC50 fish 1 54000 mg/l (LC50; 96 h; Salmo gairdneri; Static system; Fresh water)
EC50 Daphnia 1 > 10000 mg/l (EC50; 24 h; Daphnia magna; Static system; Fresh water)
Threshold limit algae 1 > 10000 mg/l (EC0; 8 days; Scenedesmus quadricauda; Static system; Fresh water)

12.2 Persistence and degradability

White mineral oil (petroleum) (8042-47-5)

Persistence and degradability Not readily biodegradable in water. Adsorbs into the soil.

Glycerol (56-81-5)

Persistence and degradability Readily biodegradable in water.
Biochemical oxygen demand (BOD) 0,87 g O₂/g substance
Chemical oxygen demand (COD) 1,16 g O₂/g substance
ThOD 1,217 g O₂/g substance
BOD (% of ThOD) 0,71

12.3 Bioaccumulation

White mineral oil (petroleum) (8042-47-5)

Log Pow > 6 (Calculated)
Bioaccumulative potential High potential for bioaccumulation (Log Kow > 5).

Glycerol (56-81-5)

Log Pow -1,75 (Experimental value; Equivalent or similar to OECD 107)
Bioaccumulative potential Not applicable.

12.4 Mobility in soil

Glycerol (58-81-5)

Surface tension : 0,0634 N/m (20 ° C; 1000 g/l).

12.5 Results of PBT- and vPvB assessment

No additional information available.

12.6 Other harmful effects

No additional information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment Methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations.

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Ecology – waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 20 01 28 - paint, inks, adhesives and resins other than those mentioned in 20 01 27.

14. INFORMATION RELATING TO TRANSPORTATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1 UN number

Not dangerous goods in terms of transport regulations.

14.2 Proper shipping name from the UN Model Regulations

ADR/RID: Not applicable. IMDG: Not applicable. IMDG: Not applicable. IATA: Not applicable.

14.3 Transport hazard class(es)

ADR/RID: Not applicable. IMDG: Not applicable. IMDG: Not applicable. IATA: Not applicable.

14.4 Packaging group

ADR/RID: Not applicable. IMDG: Not applicable. IMDG: Not applicable. IATA: Not applicable.

14.5 Environmental hazards

Dangerous for the environment: No.

Marine pollutant : No.

Other information : No supplementary information available.

14.6 Special precautions for the user

Overland transport : No data available.

Transport by sea : No data available.

Air transport : No data available.

Inland waterway transport : No data available.

Rail transport : No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable.

15. REGULATIONS

15.1 Specific health, safety and environmental regulations and legislation governing the substance or the mixture

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008.

White mineral oil (petroleum)
Cleaner GJ2/5

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10.

White mineral oil (petroleum)
Cleaner GJ2/5

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

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VwVwS Anex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4).

WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4).

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 : white mineral oil (petroleum) is listed.

SZW-lijst van mutagene stoffen : white mineral oil (petroleum) is 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

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed.

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION**Data sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

Full text of H statements to which reference is made in sections 2 and 3

H304 May be fatal if swallowed and enters the airways.

Full text of classifications [CLP/GHS] to which reference is made in sections 2 and 3

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1.

List of abbreviations and acronyms

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE Acute Toxicity Estimate.

BOD Biochemical oxygen demand.

CAS Chemical Abstracts Service (division of the American Chemical Society).

CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008].

COD Chemical oxygen demand.

DNEL Derived No Effect Level.

EINECS European Inventory of Existing Commercial Chemical Substances.

EUH Statement CLP-specific Hazard statement.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

IATA International Air Transport Association.

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IMDG	International Maritime Dangerous Goods code: International code for the transportation of hazardous substances at sea.
NVIC	Nationaal Vergiftigingen Informatie Centrum [National Poisons Information Centre].
PBT	Persistent, bioaccumulating and toxic.
PNEC	Predicted No Effect Concentration.
REACH	Registration, Evaluation and Authorisation of Chemicals.
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations for the transportation of hazardous substances by train).
RRN	REACH Registration Number.
STOT SE	Specific target organ toxicity – single exposure.
ThOD	Theoretical oxygen demand.
vPvB	Very Persistent and very Bioaccumulative.
VwVws	Verwaltungsvorschrift wassergefährdender Stoffe.
WGK	Wassergefährdungsklassen (Water hazard class).

Revision

This SDS replaced the previous release with revision 1.2/02122015. Modifications made are marked with #.

More detailed information

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions.

It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

While the information is believed to be reliable, we do not guarantee its accuracy. Purchasers are encouraged to make their own tests with materials described herein and must make independent determination of suitability and completeness of information from all sources to assure proper use with materials and compatibility with equipment.

The above information is assumed to be correct but does not make any claim of completeness and should only be used as a guideline. Korthofah BV is not liable for any eventual damage arising out of the handling of or contact with the aforementioned product.

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