Emergency telephone number (United States): CALL : +1-703-527-3887

SAFETY DATA SHEET

D120 - Detailer Glass Cleaner Concentrate

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

1. Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation

Product name : D120 - Detailer Glass Cleaner Concentrate

Product code : DX-15C

Product type : Liquid.

Use of the substance/preparation : Glass cleaner.

e-mail address of person responsible for this SDS : sberg@meguiars.com

Information Contact : Product safety department.

Emergency telephone number (with hours of operation) : Europe (Meguiar's) +31-78-6210268 (Office hours).
USA +1 703 527 3887 (24h collect).

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Fax: +1-949-752-5784

2. Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10
Xi; R36/38
R67

Physical/chemical hazards : Flammable.

Human health hazards : Irritating to eyes and skin. Vapours may cause drowsiness and dizziness.

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

3. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification	
Europe					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]
Sweden					

2-Butoxyethanol	111-76-2	20-25	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	20-25	200-661-7	F; R11 Xi; R36 R67	[1] [2]
France					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]
Netherlands					
2-Butoxyethanol	111-76-2	20-25	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	20-25	200-661-7	F; R11 Xi; R36 R67	[1]
Germany					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]
United Kingdom (UK)					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]
Switzerland					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]
Spain					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]
Italy					
2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1]
Greece					

2-Butoxyethanol	111-76-2	10 - 30	203-905-0	Xn; R20/21/22 Xi; R36/38	[1] [2]
Propan-2-ol	67-63-0	10 - 30	200-661-7	F; R11 Xi; R36 R67	[1] [2]

See section 16 for the full text of the R-phrases declared above

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. First-aid measures

First-aid measures

Eye contact : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.

Skin contact : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

5. Fire-fighting measures

NFPA

Health	2	Flammability	3	Reactivity	0

Extinguishing media

Suitable : Use dry chemical, CO_2, water spray (fog) or foam.

Not suitable : Do not use water jet.

Special exposure hazards : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Packaging materials

Recommended : Use original container.

8. Exposure controls/personal protection

Exposure limit values

Ingredient name	Occupational exposure limits
Europe	
2-Butoxyethanol	**EU OEL (Europe, 5/2006). Skin** short term: 246 mg/m³ 15 minute(s). 8 hours: 98 mg/m³ 8 hour(s).
Propan-2-ol	**ACGIH TLV (United States, 1/2007).** STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s).
France	
2-Butoxyethanol	**INRS (France, 6/2006). Skin** STEL: 147.6 mg/m³ 15 minute(s). TWA: 9.8 mg/m³ 8 hour(s).
Propan-2-ol	**INRS (France, 6/2006).** STEL: 980 mg/m³ 15 minute(s).
Netherlands	
2-Butoxyethanol	**Nationale MAC-lijst (Netherlands, 12/2006). Skin** MAC-TGG, 15 min.: 246 mg/m³ 15 minute(s). MAC-TGG, 8 uur: 100 mg/m³ 8 hour(s).

Germany

2-Butoxyethanol	**MAK-Werte Liste (Germany, 7/2006). Skin** PEAK: 98 mg/m³, 4 times per shift, 15 minute(s). TWA: 49 mg/m³ 8 hour(s). **TRGS900 AGW (Germany, 12/2006). Skin** PEAK: 392 mg/m³ 15 minute(s). TWA: 98 mg/m³ 8 hour(s).
Propan-2-ol	**MAK-Werte Liste (Germany, 7/2006).** PEAK: 1000 mg/m³, 4 times per shift, 15 minute(s). TWA: 500 mg/m³ 8 hour(s). **TRGS900 AGW (Germany, 12/2006).** PEAK: 1000 mg/m³ 15 minute(s). TWA: 500 mg/m³ 8 hour(s).

United Kingdom (UK)

2-Butoxyethanol	**EH40-WEL (United Kingdom (UK), 9/2006). Skin** WEL 15 min limit: 50 ppm 15 minute(s). WEL 8 hrs limit: 25 ppm 8 hour(s).
Propan-2-ol	**EH40-WEL (United Kingdom (UK), 9/2006).** WEL 15 min limit: 1250 mg/m³ 15 minute(s). WEL 8 hrs limit: 999 mg/m³ 8 hour(s).

Switzerland

2-Butoxyethanol	**SUVA (Switzerland, 1/2007). Skin** STEL: 98 mg/m³ 15 minute(s). TWA: 49 mg/m³ 8 hour(s).
Propan-2-ol	**SUVA (Switzerland, 1/2007).** STEL: 1000 mg/m³ 15 minute(s). TWA: 500 mg/m³ 8 hour(s).

Spain

2-Butoxyethanol	**INSHT (Spain, 1/2007). Skin** STEL: 245 mg/m³ 15 minute(s). TWA: 98 mg/m³ 8 hour(s).
Propan-2-ol	**INSHT (Spain, 1/2007).** STEL: 1250 mg/m³ 15 minute(s). TWA: 998 mg/m³ 8 hour(s).

Italy

2-Butoxyethanol	**Ministero della Salute (Italy, 3/2004). Skin** STEL: 246 mg/m³ 15 minute(s). TWA: 98 mg/m³ 8 hour(s).

Greece

2-Butoxyethanol	**PD 90/1999 (Greece, 2/2003). Skin** TWA: 120 MG/M3 8 hour(s).
Propan-2-ol	**PD 90/1999 (Greece, 2/2003).** STEL: 1225 MG/M3 15 minute(s). TWA: 980 MG/M3 8 hour(s).

Sweden

2-Butoxyethanol	**AFS (Sweden, 6/2005). Skin** STEL: 100 mg/m³ 15 minute(s). TWA: 50 mg/m³ 8 hour(s).
Propan-2-ol	**AFS (Sweden, 6/2005).** STEL: 600 mg/m³ 15 minute(s). TWA: 350 mg/m³ 8 hour(s).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Respiratory protection : Vapour respirator.

Hand protection : Natural rubber (latex).

Eye protection : Safety glasses.

Skin protection : Lab coat.

Hygiene measures : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid.

Colour : Blue. [Dark]

Odour : Characteristic.

Important health, safety and environmental information

pH : 7.5

Boiling point : 82°C (179.6°F)

Flash point : Closed cup: 29.3°C (84.7°F) [Pensky-Martens.]

Relative density : 0.89

Solubility : Easily soluble in the following materials: cold water and hot water.

Evaporation rate : 2 (Butyl acetate. = 1)

VOC Content : 43 %

10. Stability and reactivity

Stability : Hazardous polymerization may occur under certain conditions of storage or use.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

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

11. Toxicological information

Potential acute health effects

Inhalation : Vapours may cause drowsiness and dizziness.

Ingestion : Irritating to mouth, throat and stomach.

Skin contact : Irritating to skin.

Eye contact : Irritating to eyes.

Acute toxicity

Product/ingredient name	Test / Type	Species	Dose	Exposure
2-Butoxyethanol	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	917 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Potential chronic health effects

Netherlands

Propan-2-ol	Netherlands Carcinogenic Chemicals	isopropylalcohol	Carc.

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Denmark – Carcinogen list : Contains a substance or substances listed under National Working Environment Authorities Executive Order 140/1997.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:
irritation
redness

Eyes : Adverse symptoms may include the following:
irritation
watering
redness

Target organs : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Species	Exposure	Result
2-Butoxyethanol	Fish	96 hours	Acute LC50 1490000 ug/L
	Fish	96 hours	Acute LC50 1250000 ug/L
Propan-2-ol	Fish	96 hours	Acute LC50 >1400000 ug/L

Other ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
2-Butoxyethanol	0.148	-	low

Other adverse effects : No known significant effects or critical hazards.

AOX : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

13. Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Waste classification : Dispose of according to all federal, state and local applicable regulations.

Hazardous waste : Not applicable

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	UN1993	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol, 2-Butoxyethanol)	3	III		-
ADNR Class	UN1993	FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, 2-Butoxyethanol)	3	III		-
IMDG Class	UN1993	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol, 2-Butoxyethanol)	3	III		-
IATA Class	UN1993	FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol, 2-Butoxyethanol)	3	III		-

PG* : Packing group

15. Regulatory information

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :

Irritant

Risk phrases : R10- Flammable.
R36/38- Irritating to eyes and skin.
R67- Vapours may cause drowsiness and dizziness.

Safety phrases : S2- Keep out of the reach of children.
S15- Keep away from heat.
S23- Do not breathe vapour.

Product use : Consumer applications, Industrial applications.

Europe inventory : All components are listed or exempted.

National regulations

France

Social Security Code, Articles L 461-1 to L 461-7	:	2-Butoxyethanol	84
		Propan-2-ol	84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable	

Germany

Hazardous incident ordinance	:	Applicable. Category: 6 Flammable.
Hazard class for water	:	1 Appendix No. 4

Switzerland

Poison class	:	4
BAG T	:	619004
VOC content	:	VOC (w/w): 42%

Italy

Emission control directive	:	98.55% Not classified.

16. Other information

Full text of R-phrases referred to in sections 2 and 3	:	R11- Highly flammable. R10- Flammable. R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36- Irritating to eyes. R36/38- Irritating to eyes and skin. R67- Vapours may cause drowsiness and dizziness.
Full text of classifications referred to in sections 2 and 3	:	F - Highly flammable Xn - Harmful Xi - Irritant

History

Date of issue	:	04/15/2008
Date of previous issue	:	04/30/2004
Version	:	2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.