

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product code	: KV101MCG01
Product name	: MOLL CLEAN; 10LT
Manufacturer / Distributor	: Flint Group, Print Media Europe, Varn House, Northbank Industrial Park, Irlam, Greater Manchester, M44 5BL England.
e-mail address of person responsible for this SDS	: compliance.centre@flintgrp.com
Telephone no.	: +44 (0) 161 775 5412
Product use <u>History</u>	: Printing ink or Additive
Date of printing	: 22.06.2011.
Date of issue/ Date of revision	: 03.11.2010.
Date of previous issue	: No previous validation.
Version	: 2

2. HAZARDS IDENTIFICATION

Classification and labeling according to Regulation (EC) 1907/2006 (REACH)

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.

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Additional warning phrases and Additional information	Not classified.Safety Data Sheet available for professional user on request.
Risk phrases	: This product is not classified according to EU legislation.
Safety phrases Contains	: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	%	REACH Registration number	CAS number	EC number	Classification
Date of issue/Date of : 03.11.2 revision	2010.				Page: 1/7



3. COMPOSITION/INFORMATION ON INGREDIENTS

(2-methoxymethylethoxy)propanol	25-35	34590-94-8	252-104-2	Not classified.	[2]
2-(2-butoxyethoxy)ethanol	1-5	112-34-5	203-961-6	Xi; R36	[1]
orange turpentine oil	1-2.5	8028-48-6		R10 Xn; R65 Xi; R38 R52/53	[2] [1]

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
- [3] PBT-substance
- [4] vPvB-substance

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

Hazardous ingredients / Classification according to Regulation (EC) 1272/2008 (CLP)

Chemical name	CAS number	Classification
(2-methoxymethylethoxy)propanol 2-(2-butoxyethoxy)ethanol orange turpentine oil	112-34-5	Not regulated. SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 3

4. FIRST AID MEASURES

First aid measures	
General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention/advice.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Give nothing by mouth. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media	ecommended:, alcohol-resistant foam, CO ₂ , powders, water spray	
Extinguishing media not to be used	o not use water jet.	
Recommendations	ire will produce dense black smoke., Exposure to decomposition p ause a health hazard., Appropriate breathing apparatus may be red losed containers exposed to fire with water., Do not release runoff rains or watercourses.	quired., Cool

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ACCIDENTAL RELEASE MEASURES 6.

Due to the organic solvents content of the preparation:

Personal precautions	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or spray. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
Methods for cleaning up	:	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). Preferably clean with a detergent. Avoid using solvents.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

HANDLING AND STORAGE 7.

Handling

: Due to the organic solvents content of the preparation: Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see section 8). Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

Storage

: Store in accordance with local regulations, Observe label precautions, Store in a dry. cool and well-ventilated area. Keep away from heat and direct sunlight.

Due to the organic solvents content of the preparation: Keep away from sources of ignition. Keep away from: oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

Ingredient name	Occupational exposure limits
(2-methoxymethylethoxy)propanol	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. TWA: 308 mg/m ³ 8 hour(s).
2-(2-butoxyethoxy)ethanol	TWA: 50 ppm 8 hour(s). EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 15 ppm 15 minute(s). TWA: 10 ppm 8 hour(s). STEL: 15 mg/m ³ 15 minute(s). TWA: 10 mg/m ³ 8 hour(s).
	adequate ventilation. Where reasonably practicable, this should be achieved use of local exhaust ventilation and good general extraction. If these are not

sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Occupational exposure controls

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory system	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
	Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
Skin and body	 Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
Hands	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: nitrile rubber, neoprene
Gloves	: None available.
Eyes	: Use safety eyewear designed to protect against splash of liquids.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information		
<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Yellow.
Odor	:	Characteristic.
Odor threshold	:	Not available.
Important health, safety and env	iro	nmental information
рН	:	9.5 to 10
Boiling point	:	>= 100 °C
Melting point	:	Not available.
Flash point	:	Closed cup: 62°C [MEASURED]
Explosive properties	1	Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts.
Lower explosion limit	:	Not available.
Oxidizing properties	:	Not available.
Vapor pressure	:	<= 23 hPa
Density	:	~ 1 g/cm³
Solubility	:	Soluble in water in any proportion.
Octanol/water partition coefficient	:	Not available.
Viscosity	:	Not available.
Vapor density	:	Not available.
Evaporation rate	:	Not available.
Decomposition temperature	:	Not available.
Auto-ignition temperature	:	ca 204 °C

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10. STABILITY AND REACTIVITY

Conditions to avoid	: Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products.
Materials to avoid	 Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments. See sections 3 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Toxicokinetics

Absorption	: Not available.
Distribution	 Contains material which may cause damage to the following organs: upper respiratory tract, eyes, central nervous system (CNS).
Metabolism	: Not available.
Elimination	: Not available.
Acute toxicity	

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal LD50 Oral	Rabbit Rat	2700 mg/kg 4500 mg/kg	-
Chronic toxicity	: Not available.			
Carcinogenicity	: Not available.			
<u>Mutagenicity</u>	: Not available.			
Teratogenicity	: Not available.			
Reproductive toxicity	: Not available.			

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment but contains a substance or substances dangerous for the environment. See section 3 for details.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 ug/L Fresh water	Fish - Lepomis macrochirus - 33 to 75 mm	96 hours
Ecological information			

<u>Persistence/degradability</u>

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

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revision		



12. ECOLOGICAL INFORMATION

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			
Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
Not available.			
PBT	: Not applicable.		
/PvB	: Not applicable.		

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

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

Methods of disposal	: The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.
European waste catalogue (EWC)	: The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 03 13 waste ink other than those mentioned in 08 03 12 If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.
Hazardous waste	: No.

14. TRANSPORT INFORMATION

International transport regulations

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

15. REGULATORY INFORMATION

Chemical Safety Assessment	 This product contains substances for which Chemical Safety Assessments are still required.
EU regulations	: The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
	See sections 2 and 3 for details.
VOC content	: ~ 30.2 % ~ 305.5 g/L
Europe inventory	: All components are listed or exempted.
Industrial use	The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.





16. OTHER INFORMATION

CEPE MSDS Code	: 2
Full text of R-phrases referred to in sections 2 and 3 - Europe	 R10- Flammable. R65- Harmful: may cause lung damage if swallowed. R36- Irritating to eyes. R38- Irritating to skin. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The information in this Safet	y Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.
Date of issue/Date of revision	: 03.11.2010.
Version	: 2
Indicates information that	has changed from providusly issued version

Indicates information that has changed from previously issued version.

Notice to reader

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 fulfill 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.

