



**DUPLEX CLEANING MACHINES (UK) LTD**  
**MATERIAL SAFETY DATA SHEET (MSDS) PRODUCT INFORMATION AND HAZARD DATA**

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

**1.1 PRODUCT IDENTIFIER**

PRODUCT NAME	HYDROWASH
CONTAINER SIZE (S)	5LTR
CAS No.	
EINECS No.	

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

IDENTIFIED USE(S)	LOW FOAM UNIVERSAL CLEANER
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**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

COMPANY IDENTIFICATION	DUPLEX CLEANING MACHINES (UK) LTD
COMPANY ADDRESS	UNIT 27 JOSEPH WILSON ESTATE WHITSTABLE KENT CT5 3PS
TELEPHONE	0044 (0) 1227 771276
FAX	0044 (0) 1227 770220
EMAIL (COMPETENT PERSON)	info@duplex-cleaning.com

**1.4 EMERGENCY CONTACT INFORMATION**

EMERGENCY PHONE NUMBER	0044 (0) 1227 771276
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**2. HAZARDS IDENTIFICATION**

**2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

CLASSIFICATION	NOT CLASSIFIED
REGULATION (EC) No. 1272/2008 (CLP)	
DIRECTIVE 67/548/EEC & DIRECTIVE 1999/45/EC	

**2.2 LABEL ELEMENTS**

GHS PRODUCT IDENTIFIER	
HAZARD PICTOGRAM(S) REACH	NOT REQUIRED
SIGNAL WORD(S) REACH	NOT REQUIRED
HAZARD STATEMENT(S)	
R-PHRASE(S)	
S-PHRASE(S)	(2) KEEP OUT OF REACH OF CHILDREN.



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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCES**

<u>HAZARDOUS INGREDIENT(S)</u>	<u>EINECS No.</u>	<u>CAS NUMBER</u>	<u>%W/W</u>	<u>SYMBOL</u>	<u>RISK PHRASES &amp; HAZ STATEMENT</u>
3-BUTOXYPROPAN-2-OL	225-878-4	5131-66-8	<5	Xi	R36/38 H315, H319
ISOPROPANOL	200-661-7	67-63-0	<5	F,Xi	R11, R36, R67 H319, H225
LIMONENE	227-813-5	5989-27-5	<1	Xn, N	R10-38-43 R50/53- 65, H400

**4. FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST AID MEASURES (SYMPTOMS)**

NONE KNOWN

**4.2 DESCRIPTION OF FIRST AID MEASURES (ACTIONS)**

INHALATION	ENSURE SUPPLY OF FRESH AIR AND SEEK MEDICAL ATTENTION.
SKIN CONTACT	WASH SPLASHES FROM SKIN IMMEDIATELY. IF SKIN BECOMES SORE OR INFLAMED SEEK MEDICAL ATTENTION.
EYE CONTACT	IRRIGATE WITH PLENTY OF CLEAN WATER FOR AT LEAST 10 -15 MINUTES UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION..

**5. FIRE-FIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA**

SUITABLE APPARATUS	PRODUCT NOT FLAMMABLE. USE FIRE EXTINGUISHING MEDIA APPROPRIATE FOR THE SURROUNDING AREA.
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**5.2 SPECIAL HAZARDS ARISING**

SUBSTANCE OR MIXTURE EXPOSURE	MAY PRODUCE OXIDES OF CARBON, NITROGEN, SODIUM, SULPHUR.
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**5.3 APPLICABLE ADVICE FOR FIRE-FIGHTERS**

**DUPLEX HYDROWASH**



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SPECIAL EQUIPMENT REQUIREMENTS.

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING AS APPROPRIATE TO THE ASSOCIATED FIRE.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS

EMERGENCY PROCEDURES

USE APPROPRIATE PPE. AVOID BREATHING VAPOURS AND IN ANY CASE ENSURE ADEQUATE VENTILATION. CORDON OFF THE AREA TO OTHER PERSONNEL.

### 6.2 ENVIRONMENTAL PRECAUTIONS

REGULATION

DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND.

### 6.3 SPILLAGE CLEANING METHODS

MATERIALS AND PROCEDURE FOR CONTAINMENT AND CLEANING UP IF SPILLED

ABSORB WITH SAND OR OTHER BINDER AND DISPOSE OF ACCORDING TO LOCAL REGULATIONS. SMALL SPILLAGES MAY BE FLUSHED TO A FOUL DRAIN.

## 7. HANDLING AND STORAGE

### 7.1 HANDLING PRECAUTIONS

SAFE HANDLING

PROVIDE GOOD VENTILATION IN WORKING AREA. WASH HANDS AFTER USE AND DO NOT ALLOW TO ENTER SURFACE WATER DRAINS.

### 7.2 STORAGE

CONDITIONS FOR SAFE STORAGE

STORE ONLY IN ORIGINAL CONTAINERS AND KEEP OUT OF REACH OF CHILDREN. STORAGE TEMPERATURE SHOULD BE BETWEEN 5°C AND 30°C



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### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

HAZARDOUS INGREDIENT(S) CONTAINS NO SUBSTANCES WITH KNOWN OCCUPATIONAL EXPOSURE LIMITS.

#### 8.2 EXPOSURE CONTROLS

GENERAL	DO NOT EAT OR SMOKE WHILST WORKING AND WASH HANDS AFTER USE.
RESPIRATORY	AVOID BREATHING VAPOURS. PROVIDE ADEQUATE VENTILATION.
HAND PROTECTION	WEAR VINYL, LATEX OR NITRILE GLOVES
EYE PROTECTION	AVOID CONTACT WITH EYES

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 FACTORS

APPEARANCE / FORM	LIQUID (METHOD QP22)
ODOUR	CITRUS FRAGRANCE
COLOUR	CLEAR
PH (VALUE 10% SOLN)	11-12 (Method QP03)
FLASH POINT/FLAMMABLE	NOT FLAMMABLE
SOLUBILITY	SOLUBLE/DISPERSIBLE IN WATER
RELATIVE DENSITY	1.04 g/cm <sup>3</sup> @20C (Method QP07)
MELTING/FREEZING POINT	0°C
OXIDISING / EXPLOSIVE PROPERTIES	NOT APPLICABLE
VISCOSITY	NON-VISCOUS @ 20°C (Method QP04)

### 10. STABILITY AND REACTIVITY

#### 10.1 FACTORS

REACTIVITY	NOT KNOWN TO REACT WITH OTHER CHEMICALS.
CHEMICAL STABILITY	STABLE UNDER NORMAL CONDITIONS



# DUPLEX CLEANING MACHINES (UK) LTD

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POSSIBILITY OF HAZARDOUS REACTIONS	HAZARDOUS REACTIONS WILL NOT OCCUR UNDER NORMAL TRANSPORT OR STORAGE CONDITIONS.
CONDITIONS TO AVOID	NO INFORMATION AVAILABLE
INCOMPATIBLE MATERIALS	STRONG ACIDS. STRONG OXIDISING AGENTS. MAY REACT WITH ACIDS AND FLUORINE GAS, MAY REACT WITH ALUMINIUM, ZINC, TIN AND THEIR ALLOYS LIBERATING HAZARDOUS FUMES.
HAZARDOUS DECOMPOSITION PRODUCTS	OXIDES OF CARBON

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLGICAL EFFECTS

Substance	Toxicity
3-BUTOXYPROPAN-2-OL	LD50 (ORAL,RAT) 2700 MG/KG LD50 (SKIN,RAT) 2000 MG/KG LC50 (INHALATION,RAT) 651 MG/L/4H INHALATION: MAY CAUSE DIZZINESS - MAY CAUSE DROWSINESS CONTACT WITH SKIN - CAUSES IRRITATION CONTACT WITH EYES - CAUSES IRRITATION INGESTION - MAY CAUSE DIZZINESS, CONFUSION, HEADACHE OR STUPOR - MAY CAUSE GASTRO-INTESTINAL DISTURBANCES CARCINOGENICITY - NO EVIDENCE OF CARCINOGENIC EFFECTS TERATOGENICITY - NO EVIDENCE OF REPRODUCTIVE EFFECTS MUTAGENICITY - NO EVIDENCE OF REPRODUCTIVE EFFECTS
ISPROPANOL	ACUTE TOXICITY (ORAL LD50) > 2000 MG/KG RAT ACUTE TOXICITY (DERMAL LD50) > 2000 MG/KG RABBIT ACUTE TOXICITY (INHALATION LC50) > 20 MG/L (VAPOURS) RAT 4 HOURS SERIOUS EYE DAMAGE/IRRITATION - IRRITATING NOT SENSITIZING NOT A CARCINOGEN GENERAL INFORMATION PROLONGED AND REPEATED CONTACT WITH SOLVENTS OVER A LONG PERIOD MAY LEAD TO PERMANENT HEALTH PROBLEMS. INHALATION: VAPOURS MAY IRRITATE THE RESPIRATORY SYSTEM AND CAUSE COUGHING, ASTHMATIC BREATHING AND BREATHLESSNESS. PROLONGED INHALATION OF HIGH CONCENTRATIONS MAY DAMAGE RESPIRATORY SYSTEM. VAPOURS MAY CAUSE HEADACHE,



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FATIGUE, DIZZINESS AND NAUSEA. HARMFUL: POSSIBLE RISK OF IRREVERSIBLE EFFECTS THROUGH INHALATION.  
INGESTION. - INGESTION MAY CAUSE SEVERE IRRITATION OF THE MOUTH, THE OESOPHAGUS AND THE GASTROINTESTINAL TRACT. IRRITATING. MAY BE ABSORBED IN THE BODY AND CAUSE DIZZINESS, NAUSEA AND VOMITING. SWALLOWING CONCENTRATED CHEMICAL MAY CAUSE SEVERE INTERNAL INJURY.  
SKIN CONTACT - ACTS AS A DEFATTING AGENT ON SKIN. MAY CAUSE CRACKING OF SKIN, AND ECZEMA. RISK OF SENSITISATION OR ALLERGIC REACTIONS AMONG SENSITIVE INDIVIDUALS.  
EYE CONTACT - EXTREME IRRITATION OF EYES AND MUCOUS MEMBRANES, INCLUDING BURNING AND TEARING. RISK OF CORNEAL DAMAGE.  
ROUTE OF ENTRY - INHALATION. INGESTION. SKIN AND/OR EYE CONTACT.  
TARGET ORGANS - CENTRAL NERVOUS SYSTEM EYES GASTRO-INTESTINAL TRACT SKIN  
MEDICAL SYMPTOMS - EXTREME IRRITATION OF EYES AND MUCOUS MEMBRANES, INCLUDING BURNING AND TEARING. VISUAL DISTURBANCES, INCL. BLURRED VISION. NAUSEA, VOMITING. HEADACHE.  
MEDICAL CONSIDERATIONS - SPLASH IN EYE REQUIRES EXAMINATION BY EYE SPECIALIST.

No information regarding interactions between the ingredients in this mixture is available, therefore, the information shown above is separately reported for each relevant ingredient used in the mixture even though it may be present below its concentration limit and represent no toxicity in the mixture as a whole.

## 12. ECOLOGICAL INFORMATION

### 12.1 STATEMENTS

No specific information is available for this mixture, therefore, the following information regarding the relevant substances used in this mixture is provided, even though they may be present below the concentration limit and represent minimal or no toxicity to the environment.

SUBSTANCE	ECO TOXICITY
3-BUTOXYPROPAN-2-OL	12 .1 TOXICITY - LC50 (FISH) 560 MG/L (96 HR) - EC50 (DAPHNIA) >1000 MG/L (48 HR)



## DUPLEX CLEANING MACHINES (UK) LTD

### MATERIAL SAFETY DATA SHEET (MSDS) PRODUCT INFORMATION AND HAZARD DATA

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- IC50 (ALGAE) 560 MG/L (96 HR)
- 12 .2 PERSISTENCE AND DEGRADABILITY
- READILY BIODEGRADABLE
- 12 .3 BIOACCUMULATION POTENTIAL
- BIOACCUMULATION IS INSIGNIFICANT
- 12 .4 MOBILITY IN SOIL
- COMPLETELY SOLUBLE IN WATER
- 12 .5 RESULTS OF PBT AND VPVB ASSESSMENT
- NOT A PBT ACCORDING TO REACH ANNEX XIII
- 12 .6 OTHER ADVERSE EFFECTS

ISOPROPANOL

#### ECOTOXICITY:

THE PRODUCT COMPONENTS ARE NOT CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS. HOWEVER, THIS DOES NOT EXCLUDE THE POSSIBILITY THAT LARGE OR FREQUENT SPILLS CAN HAVE A HARMFUL OR DAMAGING EFFECT ON THE ENVIRONMENT.

#### 12.1. TOXICITY

ACUTE TOXICITY - FISH LC50 48 HOURS > 100 MG/L LEUCISCUSIDUS (GOLDEN ORFE)

ACUTE TOXICITY AQUATIC INVERTEBRATES EC50 48 HOURS > 100MG/L DAPHNIA MAGNA

ACUTE TOXICITY - AQUATIC PLANTS EC50 72 HOURS > 100 MG/L SCENEDESMUS SUBSPICATUS

#### 12.2. PERSISTENCE AND DEGRADABILITY

##### DEGRADABILITY:

READILY BIODEGRADABLE MEETING THE 10 DAY WINDOW CRITERION. THE PRODUCT IS BIODEGRADABLE. OXIDISES RAPIDLY BY PHOTOCHEMICAL REACTIONS IN AIR. INTEGRATED ENVIRONMENTAL HALF-LIFE EXPECTED TO BE 1-<10 DAYS

DOMINANT LOSS PROCESS - BIODEGRADATION  
CHEMICAL OXYGEN DEMAND 2.2 G O2/G SUBSTANCE

#### 12.3. BIOACCUMULATIVE POTENTIAL

##### BIOACCUMULATIVE POTENTIAL:

DOES NOT BIOACCUMULATE SIGNIFICANTLY  
PARTITION COEFFICIENT 0.05

#### 12.4. MOBILITY IN SOIL

##### MOBILITY:

THE PRODUCT IS WATER SOLUBLE AND MAY SPREAD IN WATER SYSTEMS. LARGE VOLUMES MAY PENETRATE SOIL AND COULD CONTAMINATE GROUNDWATER  
PRODUCT REMAINING ON SOIL SURFACE EVAPORATES WITHIN ONE DAY IF PRODUCT ENTERS SOIL IT WILL BE MOBILE AND MAY CONTAMINATE GROUNDWATER.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT  
THIS PRODUCT DOES NOT CONTAIN ANY PBT OR VPVB SUBSTANCES.



## DUPLEX CLEANING MACHINES (UK) LTD

### MATERIAL SAFETY DATA SHEET (MSDS) PRODUCT INFORMATION AND HAZARD DATA

12.6. OTHER ADVERSE EFFECTS  
THE PRODUCT CONTAINS VOLATILE, ORGANIC  
COMPOUNDS WHICH HAVE A PHOTOCHEMICAL  
OZONE CREATION POTENTIAL.

## 13. DISPOSAL INFORMATION

### 13.1 WASTE TREATMENT METHODS

When disposing of surplus or waste product use suitable PPE etc. ensuring empty containers are rinsed out and disposed of safely. Do not allow product to enter land or surface water drains. Dispose of in accordance with local authority regulations. Do not mix with other waste materials.

## 14. TRANSPORT INFORMATION

### 14.1, 14.3, 14.5, 14.6 STATEMENTS

UN NUMBER	N/A
TRANSPORT HAZARD CLASS(ES)	NONE
ENVIRONMENTAL HAZARDS	NONE
MARINE POLLUTANT	NONE

## 15. REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENT REGULATION/LEGISLATION SPECIFIC TO THE SUBSTANCE OR MIXTURE

UK REGULATORY REFERENCES  
CHEMICALS (HAZARD INFORMATION PACKAGING) REGULATIONS

STATUTORY INSTRUMENTS  
THE CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS 2009 (S.I 2009 NO. 716)

APPROVED CODE OF PRACTICE  
CESIO SAFETY DATA SHEETS FOR SUBSTANCES AND PREPARATIONS. CLASSIFICATION AND LABELLING  
OF SUBSTANCES AND PREPARATIONS DANGEROUS FOR SUPPLY

GUIDANCE NOTES

CHIP FOR EVERYONE HSG(108)

EU LEGISLATION

REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18  
DECEMBER 2006 CONCERNING THE REGISTRATION, EVALUATION, AUTHORISATION AND





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### MATERIAL SAFETY DATA SHEET (MSDS) PRODUCT INFORMATION AND HAZARD DATA

RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO 793/93 AND COMMISSION REGULATION (EC) NO 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVES 91/155/EEC, 93/67/EEC, 93/105/EC AND 2000/21/EC, INCLUDING AMENDMENTS. 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 WITH AMENDMENTS. NATIONAL REGULATIONS  
THE CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS 2002. NO. 1689.

#### 15.2 CHEMICAL SAFETY ASSESSMENT

NO INFORMATION

#### 15.4 SAFETY PHRASES

S2 KEEP OUT OF THE REACH OF CHILDREN

### 16. OTHER INFORMATION

#### 16.1 RISK & HAZARD PHRASES (USED IN SECTIONS 2 AND 3)

R10	FLAMMABLE
R11	HIGHLY FLAMMABLE
R34	CAUSES BURNS
R36	IRRITATING TO EYES
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
R36/38	IRRITATING TO RESPIRATORY SYSTEM AND SKIN
R38	IRRITATING TO SKIN
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS
H315	CAUSES SKIN IRRITATION
H319	CAUSES SERIOUS EYE IRRITATION.
H225	HIGHLY FLAMABLE LIQUID AND VAPOUR.
H400	VERY TOXIC TO AQUATIC LIFE



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#### 16.2 GLOSSARY

PPE	PERSONAL PROTECTIVE EQUIPMENT
N/K - N/A	NOT KNOWN / NOT APPLICABLE
OES	OCCUPATIONAL EXPOSURE LIMIT
TWA	TIME WEIGHTED AVERAGE
W/V	WEIGHT TO VOLUME

#### 16.3 LEGAL DISCLAIMER

THE DATA CONTAINED IN THIS SAFETY DATA SHEET HAS BEEN SUPPLIED FOR THE PURPOSE OF PROTECTING THE HEALTH AND SAFETY OF INDUSTRIAL AND COMMERCIAL USERS WHO ARE DEEMED CAPABLE OF UNDERSTANDING AND ACTING ON THE INFORMATION PROVIDED.

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