



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 Duplex Hydrofresh
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) Concentrated neutraliser & bactericidal cleaner.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY IDENTIFICATION Duplex Cleaning Machines (UK) Ltd
Unit 27 Joseph Wilson Estate
Whitstable
Kent
CT5 3PS
COMPANY ADDRESS
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

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION None
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
HAZARD STATEMENT(S)
R-PHRASE(S) (N/C) NOT CLASSIFIED
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 & HAZ STATEMENT</u>
ALCOHOL EXTHOXYLATE		68439-45-2	<5	Xi	R22-41 H318, H302
BENZYL-C12-16 ALKYLDIMETHYL,CHLORIDES	270-325-2	68424-85-1	<5		H302, H314, H318, H400

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES (MOST IMPORTANT SYMPTOMS BOTH ACUTE & DELAYED)

NONE KNOWN

4.2 DESCRIPTION OF FIRST AID MEASURES (ACTIONS)

INHALATION	ENSURE SUPPLY OF FRESH AIR
SKIN CONTACT	RINSE OFF WITH WATER
EYE CONTACT	RINSE EYES WITH WATER UNTIL IRRITATION SUBSIDES.

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

SPECIAL EQUIPMENT REQUIREMENTS.	WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING AS APPROPRIATE TO
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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	NONE REQUIRED.
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	FRAGRANCED
COLOUR	GREEN
PH (VALUE 10% SOLN)	6.5 - 7 (Method QP03)
FLASH POINT/FLAMMABLE	NOT FLAMMABLE
SOLUBILITY	SOLUBLE/DISPERSIBLE IN WATER
RELATIVE DENSITY	1 g/cm ³ @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
POSSIBILITY OF HAZARDOUS REACTIONS	NONE KNOWN



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INCOMPATIBLE MATERIALS

NO NONE

HAZARDOUS DECOMPOSITION PRODUCTS

MAY PRODUCE TOXIC PRODUCTS OF COMBUSTION WHEN INVOLVED IN A FIRE.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLGICAL EFFECTS

Substance

Toxicity

ALCOHOL ETHOXYLATE

TOXICITY VALUE(S): ORL RAT LD50 >200<2000 MG/KG

ACUTE EFFECTS: HARMFUL IF SWALLOWED. RISK OF SERIOUS DAMAGE TO EYES.

SKIN CONTACT: THERE MAY BE IRRITATION AND REDNESS AT THE SITE OF CONTACT.

EYE CONTACT: THERE MAY BE IRRITATION AND REDNESS. THE EYES MAY WATER PROFUSELY. THEREMAY BE SEVERE PAIN. MAY CAUSE PERMANENT DAMAGE.

INGESTION: NAUSEA AND STOMACH PAIN MAY OCCUR. THERE MAY BE VOMITING.

INHALATION: THERE MAY BE IRRITATION OF THE THROAT WITH A FEELING OF TIGHTNESS IN THE CHEST.

BENZYL-C12-16-
ALKYLDIMETHYL,
CHLORIDES

ACUTE TOXICITY:

ORAL : LD50 (RAT) 240-400 MG/KG

DERMAL : LD50 (RAT) 800-1420 MG/KG

POTENTIAL ACUTE HEALTH EFFECTS

INHALATION: NO INHALATION HAZARD UNDER NORMAL USE CONDITIONS. DUST, SPRAY, MIST CAN BE CORROSIVE/HIGHLY IRRITATING TO THE RESPIRATORY SYSTEM

INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH

SKIN CONTACT: CORROSIVE TO SKIN. CAUSES BURNS. HARMFUL IN CONTACT WITH SKIN.

EYE: CORROSIVE TO EYES.

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



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represent minimal or no toxicity to the environment.

ALCOHOL ETHOXYLATE

ECOTOXICITY VALUE(S): FISH 96H LC50 1-10 MG/L
MOBILITY: SOLUBLE IN WATER.
PERSISTENCE AND DEGRADABILITY: THIS SURFACTANT COMPLIES WITH THE BIODEGRADABILITY CRITERIA AS LAID DOWN IN REGULATION (EC) NO.648/2004 ON DETERGENTS. DATA TO SUPPORT THIS ASSERTION ARE HELD AT THE DISPOSAL OF THE COMPETENT AUTHORITIES OF THE MEMBER STATES AND WILL BE MADE AVAILABLE TO THEM, AT THEIR DIRECT REQUEST OR AT THE REQUEST OF THE DETERGENT MANUFACTURER.
PBT IDENTIFICATION: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

BENZYL-C12-16-
ALKYLDIMETHYL,
CHLORIDES

12.1 ECOTOXICITY : THE PRODUCT IS TOXIC TO AQUATIC ORGANISMS
ACUTE LC50 FISH (96HR) 0.85 – 1.2 MG/L
ACUTE EC50 DAPHNIA (48HR) 0.02 MG/L
ACUTE EC50 ALGAE (96HR) 0.06 MG/L
12.2 PERSISTENCE/DEGRADABILITY : READILY BIODEGRADABILITY: COMPLIES WITH BIODEGRADABILITY CONDITIONS, PARTICULARITIES AND LIMITS SPECIFIED IN DETERGENTS REGULATION (EC) 648/2004 & ANNEXES.
12.3 BIO-ACCUMULATIVE POTENTIAL : LOW: PRODUCT IS SURFACE ACTIVE: LOG POW (CA. 0.5) MAY NOT BE APPROPRIATE
12.4 MOBILITY IN SOIL : WATER SOLUBLE, READLY BINDS TO ORGANIC MATTER
12.5 PBT AND VPVB : NOT APPLICABLE
12.6 ECOLOGICAL OVERVIEW : PRODUCT CONTAINS A SUBSTANCE CLASSIFIED AS DANGEROUS FOR THE ENVIRONMENT

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

DUPLEX HYDROFRESH



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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 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)

R22 HARMFUL IF SWALLOWED



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R41	RISK OF SERIOUS DAMAGE TO EYES
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H318	CAUSES SERIOUS EYE DAMAGE
H302	HARMFUL IF SWALLOWED
H400	HIGHLY FLAMABLE LIQUID AND VAPOUR. VERY TOXIC TO AQUATIC LIFE

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.

PLEASE ENSURE THAT IT IS PASSED TO THE APPROPRIATE PERSON(S) IN YOUR COMPANY, WHO ARE CAPABLE OF ACTING ON THE INFORMATION.

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