AVERY GRAPHICS.

conforms to Directive 2001/58/EC

## 1. Chemical product and company identification

Trade name Avery Surface Cleaner

MSDS number 4048

Application cleaning and degreasing

Supplier Avery Dennison Graphics Europe

Address Rijndijk 86 P.O. Box 1

NL – 2394 ZG Hazerswoude

Telephone +31 (0)71 342 16 61 Fascimile +31 (0)71 342 15 94 NL – 2394 ZG Hazerswoude

## 2. Composition / information on ingredients

Description of substances responsible for the classificatyion of the preparation:

Chemical name	EC number	Percentage	Symbol(s)	R – phrase(s)
Isopropanol (2-propanol)	200-661-7	> 50	F, Xi	11-36-67
D-limonene	227-813-5	5 – 15	Xn,Nq	10-36-43-50/53-65
Butylglycol	203-905-0	1 – 5	Xn	20/21/22-36/38
Ammonia	215-647-6	< 1	C,N	34-50

Occupational exposure limit(s), if relevant, are listed in section 8.

#### 3. Hazard identification

Human health hazards irritating to eyes; vapours may cause drowsiness and dizziness; may cause

sensitization by skin contact

Chemical hazards Flammable

Environmental hazards toxic to aquatic systems: may cause long-term adverse effects to the aquatic

environment

### 4. First aid measures

#### Effects and symptoms

Inhalation in high concentrations: irritation, coughing, sore throat, head ache, dizziness.

Drowsiness, unconsciousness or laborious breathing

Skin may cause irritation/redness

Eyes redness, pain, reduced/poor visibility, inflammation/damage of cornea Ingestion irritation of lips, mouth and pharunx, nausea, stomach ache. Also see

'inhalation'

### First aid measures

Inhalation fresh air, rest; call physician if complaints persist

Skin contact wash with copoius amounts of water; remove contaminated clothing and

wash before re-use

Eye contact immediately flush with water for at least 15 minutes ( remove contact lenses)

seek medical attention.

Ingestion rinse mouth with water; do NOT induce vomiting. Immediately seek medical

attention

## 5. Fire fighting measures

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, dry chemical powder, atomized water

Non suitable media full water jet

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Specific exposure risks vapours spread over the floor: may be ignited from a distance

Protection for fire fighters self contained breathing apparatus

### 6. Accidental release measures

Personal precautions spills of 50 litres and more: immediately clear area. Alert safety expert.

Ventilate area and wear personal protection

Environmental precautions avoid product from entering sewers, surface waters and/or soil

Methods for cleaning up cover absorbed product with foam to reduce flammability/risk of explosion.

Collect mechanically with spark free tools and store in container for disposal.

Flush floor with lots of water and drain this into sewer.

### 7. Handling and storage

Handling take usual precautions when handling chemicals; keep away form sources

of ignition - no smoking; avoid contact with eyes and skin

Storage keep container well closed in ventilated, fire proof area

Suitable packaging materials PET
Non suitable packagings aluminium

## 8. Exposure controls/personal protection

Engineering measures only use in well ventilated area wash hands before break or after use

Occupational exposure limits

Chemical name	MAC - 8 hrs		MAC 15 min	
Isopropylalcohol	250 ppm	650 mg/m3	-	-
Ammonia	20 ppm	14 mg/m3	50 ppm	36 mg/m3
Butylglycol	20 ppm	100 mg/m3	50 ppm	246 mg/m3

#### Personal protective equipment

Product degreasae the skin: may cause eczematic skin disease based on sensitization of the skin (in which case any future contact by skin must be avoided). Inhalation of high concentrations may affect the brain. Aberration of liver and/or kidneys may occur.

The efficacy of protective equipment depends o. a of temperature and degree of ventilation. Always take expert advice about local situation.

**Personal equipment** ( in case exposure is unavoidable) Respiratory protection respiratory protection, filter type A

Hand protection nitrill rubber gloves, f.e. Marigold® Long Nitrosolv or Blue Nitril

Eye protection normally not necessary

## 9. Physical and chemical properties

Physical state liquid
Colour green
Odour specific
pH n.d.

Solubility in water dilution with water will cause separation of product

Log P Octanol/watern.d.Flashpoint22 °CAutoignition temperatureappr. 400 °CBoiling point / rangefrom 82 °C

Freezing point / range product will turn hazy at appr. 12 °C

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Explosion limits 2 – 12 % by volume

Decomposition temperature n.d.

Viscosity at 20°C < 10 mPa . s Relative density at 20°C appr. 0.882 g.ml

Evaporation range n.d.

Vapour pressure at 20°C appr. 42 mbar

#### 10. Stability and reactivity

Stability stable under normal conditions Conditions to avoid keep away from heat, open fire

Materials to avoid acids and oxidizing materials/substances

Hazardous decomposition carbon oxides and nitrous oxides

products

#### 11. Toxicological information

With the product as such, no toxicological survey has been carried out. Based on the composition as given in section 2, the product is labeled as irritant.

chemical name	LD50 oral (rat)	LD50 dermal (rabbit)	LC50 inhalation (rat)	
Isopropylalcohol	> 2000 mg/kg	> 2000 mg/kg	n.d.	
Butyl glycol	1480 mg/kg	> 490 mg/kg	2,2 mg/l/4hr	
D-limonene	> 5000 mg/kg	> 5000 mg/kg	n.d.	
Contact with the skin Sensitization	dry skin, may cause redness/irritation may cause sensitization by skin contact			

### 12. Ecological information

With the product as such, no ecotoxicological survey has been carried out. Based on the composition as given in section 2, the product is labeled as: toxic to the aquatic environment.

#### **Ecotoxicological effects**

Ecotoxicity toxic to the aquatic organisms, LC50 < 10 mg/l

Mobility partly soluble in water

Persistency and degradability n.d.

Bioaccumulation not expected

## 13. Disposal considerantions

Product in general the product can be used completely

European Waste Code product: 07 01 04

packaging: 15 01 10

National regulations disposal in compliance with local/national regulations

## 14. Transport information

UN number 1993

ADR class limited quantities according prescription 3.4.6 (LQ4) in quantities up to 3 litre

per inner packaging and 12 litres per collo

Classification code F1
Packaging group II

Proper shipping name (bulk) 1993 FLAMMABLE LIQUID, N.O.S.

CEFIC transport card 30G30

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IMDG class3.2Packaging groupIIEmS3-06MFAG305

#### 15. Regulatory information

Hazard symbol(s) Xi (irritant), N (dangrous for the environment)

## Risk phrases

R10 flammable R36 irritating to eyes

R43 may cause sensitization by skin contact R67 vapours may cause drowsiness and dizziness

R51/53 toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment

#### Safety phrases

S23 do not breathe vapour/sprayS24 avoid contact with skinS37 wear suitable gloves

S51 use only in well-ventilated areas

S60 this material and its container must be disopsed of as hazardous waste

Additional EC regulations Dangerous Preparations Directives 67/548/EEC and 1999/45/EC

#### Additional national regulations -

#### 16 Other information

This safety data sheet conforms to EC directive 2001/58/EC of 27 July 2001. The data given here are based on our current knowledge and expertise.and the purpose of this safety data sheet is to describe the product in terms of its safety requirements. The data do not signify any warranty with regard to the properties of the product.

Although reasonable care has been taken in the preparation of this document to assess and summarise the hazard properties of the product, the user must satisfy himself that the information contained herein is pertinent to permit safe handling under his use conditions, since the supplier cannot foresee all conditions of use. It is advised to pass this information on to all personnel/parties concerned, if necessary in an appropriate format.

#### Explanation of the R phrases mentioned in section 2

R10 flammable R11 highly flammable

R20/21/22 harmful by inhalation, in contact with skin and if swallowed

R34 causes burns R36 irritating to eyes

R36/38 irritating to eyes and skin

R43 may cause sensitization by skin contact

R50 very toxic to aquatic organisms

R50/53 very toxic to aquatic organisms: may cause long-term adverse effects to the aquatic environment

R65 harmful: may cause lung damage if swallowed vapours may cause drowsiness and dizziness

Explanation of the abbreviations used in this data sheet

conforms to Directive 2001/58/EC

n.d. not determined

Date of issue 26-11-2002 History revision of: n.a.