



ECO CLEANING SOLUTIONS

PRODUCT INFORMATION SHEET

BIO KLEEN

MULTI-SURFACE CLEANER & SANITIZER

PRODUCT INFORMATION:

Concentrated, fragranced, all-purpose hard surface cleaner & sanitizer designed for use on all household surfaces such as windows, mirrors, floors, furniture, stainless steel, sinks, showers, toilets etc. to clean and kill a wide range of bacteria, fungi & enveloped viruses

ADVANTAGES:

POWERFUL SOIL
REMOVAL:

Formulated to penetrate, emulsify & remove grease & grime quickly & efficiently

POWERFUL DISINFECTION:

Contains Benzalkonium Chloride a proven and powerful disinfectant against a wide range of microorganisms such as MRSA, Staph, E. Coli, C.Difficile, Salmonella & Listeria.

FAST ACTING AND
VERSATILE:

Effective within moments of application & can be applied easily by spray or mop to all surfaces.

SAFE ON ALL SURFACES:

Can be wiped away easily from all hard surfaces leaving a hygienically clean surface with no streaks or stains

BIODEGRADABLE:

Fully biodegradable.

SOLUBILITY:

100% soluble in water.

DIRECTIONS FOR USE:

DILUTION: Light soiling: 1:25, Medium Soiling: 1:10. Heavy Soiling 1:5. Apply by spray, mop, brush, sponge or mechanical cleaner. For disinfecting allow 5 minutes contact time before wiping off. Rinse well after use when diluted less than 10:1. Do not mix with other detergents.

HEALTH AND SAFETY: See Safety Data Sheet.

PACKAGING:

All our plastic drums are high molecular weight; high-density polyethylene designed to bring the product to the customer in perfect conditions. Size: 5Lt Drums

QUALITY ASSURANCE:

This product is manufactured in Ireland to ISO 9001 quality standards & conforms to R.E.A.C.H & CLP regulations. Shelf life: Unopened: Not less than 2 years. Opened: Not less than 90 days. Diluted: Not less than 24 hours

Safety Data Sheet

Corresponding to Regulation (EC) No 1272/2008 (CLP)

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PRODUCT NAME: BIO KLEEN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name BIO KLEEN
Product No. HR 5241/2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Cleaning agent

1.3. Details of the supplier of the safety data sheet

Supplier JSK Eco Cleaning Solutions, Tramore Road, Cork, Ireland
Tel: +353-21 4318545 Fax: +353-21 4312459
Email: info@jskcleaning.ie

1.4. Emergency Contact: National Poisons Information Centre, Beaumont Hospital,
Beaumont Road, Dublin 9. Tel: +353(01)8092566

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification: Regulation (EC) No 1272/2008: H315, H317, H319
Human health: May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation
Environment: This product is Readily Biodegradable and not expected to be hazardous to the environment.

2.2. Label elements

Detergent Labelling: Contains: Dipropylene glycol monomethyl ether. 1.25% Alkyl Dimethyl Benzyl Ammonium Chloride, Non-ionic surfactants. Orange Oil: May produce an allergic reaction



Labelling

WARNING

Hazard Phrases H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

Precautionary

Statements P262 Do not get in eyes, on skin or on clothing
Statements P264 Wash hands thoroughly after handling
P280 Wear protective gloves, clothing, eye & face protection
P270 Do not eat, drink or smoke when using this product.
P301 IF SWALLOWED: Rinse mouth. Call a poison centre or doctor if & 312 you feel unwell.
P302 IF ON SKIN: Remove contaminated clothing & rinse skin thoroughly with soap & water. If skin irritation persists or rash occurs get medical advice/attention
P305 IF IN EYES: Flush eyes with water, remove contact lenses if & 310 present & continue rinsing. Immediately call a poison centre or doctor/physician

2.3. Other hazards N/A

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

DIPROPYLENE GLYCOL MONOMETHYL ETHER CAS-No.: 34590-94-8 EC No.: 252-104-2 REACH registration number: 01-2119450011-60-xxxx	1-5%
Classification (EC 1272/2008) Not Classified	
ALCOHOL ETHOXYLATE CAS-No.: 68439-45-2 EC No.: 614-482-0 REACH registration number: N/A	1-5%
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE CAS-No.: 68424-85-1 EC No.: 270-325-2 REACH registration number: 01-2119965180-41-xxxx	1-5%
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Aquatic Acute 1 - H400	
SODIUM XYLENE SULPHONATE CAS-No.: 1300-72-7 EC No.: REACH registration number: 01-2119513350-56-xxxx	1-5%
Classification (EC 1272/2008) Eye Irrit. 2 - H319	
ORANGE OIL CAS-No.: 8028-48-6 EC No.: 232-433-8 REACH registration number: 01-2119493353-35-xxxx	<2%
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	

A Full Text for all Hazard Statements are Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	Remove immediately from source to fresh air. Obtain medical attention if any discomfort continues.
Skin Contact:	Remove contaminated clothing & rinse skin thoroughly with soap & water. Obtain medical attention if irritation persists or rash occurs
Eye Contact:	Flush eyes with water immediately. Obtain medical attention if irritation persists.
Ingestion:	Rinse out mouth immediately with water. Do not induce vomiting. Drink plenty of water. Consult a doctor & show this container or label.

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4.2. Most important symptoms and effects, both acute and delayed

- Inhalation: Spray mists may cause respiratory tract irritation.
Ingestion: May cause discomfort if swallowed, seek medical advice & show this container or label.
Skin contact: May cause an allergic reaction. Irritating to skin, may cause soreness & reddening of skin.
Eye contact: May cause damage to eyes. May lead to the product affecting the natural lubrication of the eye & cause burning, redness &/or tearing

4.3. Indication of any immediate medical attention and special treatment needed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

SECTION 5: FIRE FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media: Water, Foam.
5.2 Unsuitable: N/A
5.3 Specific Hazards: Does not present any particular risk in the event of fire.
5.4 Special Equipment for the protection of Fire Fighters: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions: Avoid contact with skin and eyes (see Section 8.)
6.2 Environmental Precautions: No special measures required
6.3 Methods for Cleaning up: Small Spills - Flush with water.
Large Spills - Contain and collect spillage and absorb on to sand.

SECTION 7: HANDLING AND STORAGE

7.1 Handling

- Technical Measures: No special measures required.
Safe Handling Advice: Avoid ingestion & contact with eyes & skin. Comply with instructions for use.

7.2 Storage

- Technical Measures: No special measures required.
Storage Conditions: Store in a cool dry place.
Incompatible Products: Acids, Strong Oxidizing Agents.
Packaging: Plastic Drums.
Packaging Materials: Recommended: Plastic Materials, Polyethylene, Polypropylene.
Not Suitable - Uncoated Metal Drums.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters.

Name	STD	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15 minute reference period)		Notes
		ppm	mg/m ³	ppm	mg/m ³	
DIPROPYLENE GLYCOL MONOMETHYL ETHER	OELV	50 ppm	308 mg/m ³	–	–	Sk, IOELV

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8.2 Personal Protection Equipment:



Respiratory Protection:	Provide adequate ventilation in areas of confined space.
Hand Protection:	Use Chemical Resistant Gloves to EN Standard 374 Level 1, Letter Code K
Eye Protection:	Use Chemical Goggles or Face Shield to EN Standard 166 Level 3 or higher
Skin Protection:	Wear Plastic Apron EN Standard 13034 Type PB[6] & Face Shield EN Standard 166 Level 3 or higher

8.3 Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	Appearance:	Clear Liquid.
b)	Odour:	Fragrant
c)	Odour threshold:	N/A
d)	pH:	7+/-0.5 (undiluted)
e)	Melting point / freezing point:	No data available
f)	Initial boiling point & boiling range:	No data available
g)	Flash point:	No data available
h)	Evaporation rate:	No data available
i)	Flammability solid, gas):	No data available
j)	Upper/lower flammability or explosive limits:	No data available
k)	Vapour pressure:	No data available
l)	Vapour density:	No data available
m)	Relative density:	1.00kg/dm ³
n)	Solubility(ies):	Soluble in Water
o)	Partition coefficient: n-octanol/water:	No data available
p)	Auto-ignition temperature:	No data available
q)	Decomposition temperature:	No data available
r)	Viscosity:	No data available
s)	Explosive properties:	No data available
t)	Oxidizing properties:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:	There are no known reactivity hazards associated with this product.
10.2. Chemical stability:	Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazardous reactions:	Hazardous Polymerisation N/A
10.4. Conditions to avoid:	Avoid Extreme Temperatures. Avoid contact with acids &/or oxidising agents.
10.5. Incompatible materials:	Acids &/or oxidizing agents
10.6. Hazardous decomposition products:	None under normal conditions.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Inhalation:	Spray mists may cause respiratory tract irritation.
Ingestion:	May cause discomfort if swallowed, seek medical advice & show this container or label.
Skin contact:	May cause an allergic reaction to skin. Irritating to skin, may cause soreness & reddening of skin.
Eye contact:	May cause damage to eyes. May lead to the product affecting the natural lubrication of the eye & cause burning, redness &/or tearing

11.2. Toxicological information on ingredients:

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Acute Toxicity (Oral LD50)
> 5000 mg/kg Rat
Acute Toxicity (Dermal LD50)
> 20 mL/kg Rat
Acute Toxicity (Inhalation LC50)
> 275 ppm (vapours) Rat 7 hours
REACH dossier information

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Acute Toxicity (Oral LD50)
> 5000 mg/kg Rat
Acute Toxicity (Dermal LD50)
> 2000 mg/kg Rat
Acute Toxicity (Inhalation LC50)
> 1.6 mg/l (dust/mist) Rat 4 hours
REACH dossier information

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE CAS-No.: 68424-85-1)

Acute Toxicity (Oral LD50)
150 mg/kg Mouse
Acute Toxicity (Dermal LD50)
1420 mg/kg Rat
Miscellaneous information sources.

SODIUM XYLENE SULPHONATE (CAS: 1300-72-7)

Acute Toxicity (Oral LD50)
> 7000 mg/kg Rat
Acute Toxicity (Dermal LD50)
> 2000 mg/kg
REACH dossier information

ORANGE TERPENES (CAS: 8028-48-6)

Acute Toxicity (Oral LD50)
> 5000 mg/kg Rat
Acute Toxicity (Dermal LD50)
> 5000 mg/kg Rabbit
REACH dossier information

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SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity

This product is Readily Biodegradable and not expected to be hazardous to the environment.

12.1. Toxicity

Ecological information on ingredients:

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Acute Toxicity - Fish

LC50 96 hours > 1000 *Poecilia reticulata*

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

LC50 48 hours 1919 mg/l

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours > 969 mg/l *Selenastrum capricornutum*

REACH dossier information

NOEC 72 hours 969 mg/l *Selenastrum capricornutum*

REACH dossier information

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Acute Toxicity - Fish

LC50 96 hours 0.59 mg/l *Pleuronectes platessa*

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 0.14 mg/l *Daphnia magna*

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours 0.75 mg/l *Selenastrum capricornutum*

REACH dossier information

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE CAS-No.: 68424-85-1)

Acute Toxicity - Fish

LC50 96 hours 0.31 mg/l *Lepomis macrochirus* (Bluegill)

Miscellaneous information sources.

SODIUM XYLENE SULPHONATE (CAS: 1300-72-7)

Acute Toxicity - Fish

LC50 96 hours > 1000 mg/l *Onchorhynchus mykiss* (Rainbow trout)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 1020 mg/l *Daphnia magna*

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 96 hours 758 mg/l *Pseudokirchnerella subcapitata*

REACH dossier information

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ORANGE TERPENES (CAS: 8028-48-6)

Acute Toxicity - Fish

LC50 96 hours 702 µg/L Pimephales promelas (Fat-head Minnow)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 0.67 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours 8 mg/l Desmodemus subspicatus

REACH dossier information

12.2. Persistence and degradability

Degradability: The surfactant(s) contained in this preparation comply 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 a detergent manufacturer.

Ecological information on ingredients.

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Biodegradation. Activated sludge Degradation (72%) 28 days

REACH dossier information

The substance is readily biodegradable.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients

ALCOHOL ETHOXYLATE (CAS: 68439-45-2)

Bioaccumulation factor

BCF 12.7 Pimephales promelas (Fat-head Minnow)

REACH dossier information

12.4. Mobility in soil

Mobility: The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority

13.1. Waste treatment methods

Dispose of waste in accordance with local regulations. Recover, reclaim or recycle, where possible.

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SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods:

REGULATIONS	CLASS
RID/ADR:	Not Classified
ICAO/IATA-DGR:	Not Classified
GGVSee/IMDG-Code:	Not Classified

14.1. UN number

N/A

14.2. UN proper shipping name

N/A

14.3. Transport hazard class(es)

N/A

14.4. Packing Group

N/A

14.5. Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant: N/A

14.6. Special precautions for user

NA

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.
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Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

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.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

Revision Comments

Re-issued according to Regulation (EU) No 453/2010.

Revision Date: 01.01.21

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Hazard Statements In Full

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.