

# Safety Data Sheet

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

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Date of issue: 01.01.21

Replaces version of: 01.01.17

## PRODUCT NAME: BIO KLEEN (RTU)

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

#### 1.1. Product identifier

Product Name MULTI-CLEAN (RTU)  
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](mailto: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: Not Classified  
Human health: Not Classified  
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, Orange oil, Alkyl dimethyl benzyl ammonium chloride. Non-ionic surfactants

Labelling

Hazard

Phrases Not Classified

Precautionary P102 Keep out of the reach of children

Statements P301 IF SWALLOWED: Rinse mouth. Call a poison centre or doctor if & 312 you feel unwell & show this label.

2.3. Other hazards N/A

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

ALCOHOL ETHOXYLATE CAS-No.: 68439-45-2                      EC No.:	0.1-1%
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	0.1-1%
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400	
SODIUM XYLENE SULPHONATE CAS-No.: 1300-72-7                      EC No.:	0.1-1%
Classification (EC 1272/2008) Eye Irrit. 2 - H319	
ORANGE OIL CAS-No.: 8028-48-6                      EC No.: 232-433-8	0.1-1%
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
DIPROPYLENE GLYCOL MONOMETHYL ETHER CAS-No.: 34590-94-8                      EC No.: 252-104-2	0.1-1%
Classification (EC 1272/2008) Not Classified	

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:	In case of inhalation of spray mist: Move person into fresh air and keep at rest.
Ingestion:	DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. Get medical attention if any discomfort continues.
Skin contact:	Wash skin with soap and water.
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids.

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

Inhalation:	No symptoms noted.
Ingestion:	No specific symptoms noted but may cause discomfort if swallowed
Skin contact:	No specific symptoms noted bur prolonged or excessively exposure may cause skin dryness.
Eye contact:	No specific symptoms noted. But contact may lead to the product affecting the natural lubrication of the eye & cause redness &/or tearing

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## 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 contact with eyes and 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 (8-hour reference period)		Notes
		ppm	mg/m3	ppm	mg/m3	
DIPROPYLENE GLYCOL MONOMETHYL ETHER	OELV	50 ppm	308 mg/m3	–	–	Sk, IOELV

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- 8.1 Engineering Measures: No special measures required.
- 8.2 Personal Protection Equipment:
- Respiratory Protection: No protection necessary.
- Hand Protection: No protection necessary however if excessive exposure is expected gloves should be worn to avoid skin dryness.
- Eye Protection: No protection necessary however care should be taken to avoid contact with eyes
- Skin Protection: No protection necessary
- 8.3 Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.
- 8.4 Occupational Exposure Limits: N/A
- 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                |
| 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 <sup>3</sup> |
| 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: No symptoms noted.  
Ingestion: No specific symptoms noted but may cause discomfort if swallowed  
Skin contact: No specific symptoms noted but prolonged or excessively exposure may cause skin dryness.  
Eye contact: No specific symptoms noted. But contact may lead to the product affecting the natural lubrication of the eye & cause 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  
REACH dossier information  
Acute Toxicity (Dermal LD50)  
> 20 mL/kg Rat  
REACH dossier information  
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  
REACH dossier information  
Acute Toxicity (Dermal LD50)  
> 2000 mg/kg Rat  
REACH dossier information  
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  
REACH dossier information  
Acute Toxicity (Dermal LD50)  
> 2000 mg/kg  
REACH dossier information

#### ORANGE TERPENES (CAS: 8028-48-6)

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

<b>REGULATIONS</b>	<b>CLASS</b>
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

Revision No: 5

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### Hazard Statements In Full

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
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
H226	Flammable liquid and vapour
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
NC	Not Classified

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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.