

# Safety Data Sheet

# ISOPADS

according to Regulation (EC) No 1907/2006  
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# CLEAR CLEAN®

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

ISOPADS™

#### Product code:

CC820, CC821

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

#### Use of the substance/mixture

Cleaning agent: Pre-saturated cleaning wipers, cleaning of materials and surfaces

### 1.3. Details of the supplier of the safety data sheet

Company name: Clear & Clean Werk für Reintechnik GmbH

Street: Niels-Bohr-Ring 36

Place: D-23568 Lübeck

Telephone: +49 451 38950- 0

Telefax: +49 451 38950- 20

Contact person: Christian Wendt

**1.4. Emergency telephone number: +49 6131 19240** Giftinformationszentrale, Langenbeckstraße 1, 55131 Mainz

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

### 2.1. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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## Precautionary statements

P370 + P378 In case of fire: Use Foam; Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder to extinguish.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of waste according to applicable legislation.

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Saturated nonwoven wiper

Contains: propan-2-ol; isopropyl alcohol; isopropanol, in aqueous solution

#### Hazardous components

CAS No	Chemical name	Quantity	
	EC No	Index No	REACH No
	GHS Classification		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	70%	
	200-661-7	603-117-00-0	01-2119457558-25
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336		

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Immediately call a doctor.

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

May cause irritation. Headache, Dizziness, Drowsiness, Anaesthetic state, Unconsciousness Has degreasing effect on the skin.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder. Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

No information available.

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## 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Pyrophoric or self-heating substances.

Keep away from food, drink and animal feedingstuffs

#### Further information on storage conditions

Protect against direct sunlight.

### 7.3. Specific end use(s)

Cleaning agent

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Do not breathe gas/fumes/vapour/spray. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

#### Hand protection

By long-term hand contact:

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0.40 mm

Breakthrough time (maximum wearing time): > 480 min

By short-term hand contact:

Suitable material: CR (polychloroprene, chloroprene rubber)

Thickness of the glove material: 0.65 mm

Breakthrough time (maximum wearing time): > 120 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Avoid release to the environment.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	like: Alcohol
pH-Value:	not determined

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flammpunkt:	(Isopropanol) 12 ° C

#### Flammability

Solid:	not applicable
Gas:	not applicable

#### Explosive properties

Vapours can form explosive mixtures with air.

Lower explosion limits:	(Isopropanol) 2 vol. %
Upper explosion limits:	not determined
Ignition temperature:	(Isopropanol) 425 ° C

#### Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

#### Oxidizing properties

Not oxidising.

Vapour pressure:(at 20 ° C):	(Isopropanol) 43 hPa
Density (at 20 ° C):	(Isopropanol) 0.87 g/cm <sup>3</sup>
Water solubility:	completely miscible

#### Solubility in other solvents

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

### 9.2. Other information

Odour threshold:	not determined
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

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## 10.5. Incompatible materials

Oxidizing agent, Strong acid

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## 10.6. Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### Practical experience

#### Other observations

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Has degreasing effect on the skin. Vapours may cause drowsiness and dizziness.

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## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

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### 12.2. Persistence and degradability

The product has not been tested.

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### 12.3. Bioaccumulative potential

The product has not been tested

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### 12.4. Mobility in soil

The product has not been tested.

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### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

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### 12.6. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal


Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging


Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN number:	UN 3175
14.2. UN proper shipping name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (2-Propanol; Isopropylalkohol; Isopropanol)
14.3. Transport hazard class(es):	4.1
14.4. Packing group:	II
Hazard label:	4.1 
Classification code:	F1
Special Provisions:	216 274 601
Limited quantity:	1 kg
Excepted quantity:	E2
Transport category:	2
Hazard No:	40
Tunnel restriction code:	E

### Inland waterways transport (ADN)

14.1. UN number:	UN 3175
14.2. UN proper shipping name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (2-Propanol; Isopropylalkohol; Isopropanol)
14.3. Transport hazard class(es):	4.1
14.4. Packing group:	II
Hazard label:	4.1 
Classification code:	F1
Special Provisions:	216 274 601 800
Limited quantity:	1 kg
Excepted quantity:	E2

### Marine transport (IMDG)



14.1. UN number:	UN 3175
14.2. UN proper shipping name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (2-Propanol; Isopropylalkohol; Isopropanol)
14.3. Transport hazard class(es):	4.1

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<b>14.4. Packing group:</b>	II
Hazard label:	4.1 
Special Provisions:	216, 274
Limited quantity:	1 kg
Excepted quantity:	E2
EmS:	F-A, S-I
<b>Air transport (ICAO-TI/IATA-DGR)</b>	
<b>14.1. UN number:</b>	UN 3175
<b>14.2. UN proper shipping name:</b>	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (2-Propanol; Isopropylalkohol; Isopropanol)
<b>14.3. Transport hazard class(es):</b>	4.1
<b>14.4. Packing group:</b>	II
Hazard label:	4.1 
Special Provisions	A46
Limited quantity Passenger:	5 kg
Passenger LQ:	Y441
Excepted quantity:	E2
IATA-packing instructions - Passenger:	445
IATA-max. quantity - Passenger:	15 kg
IATA-packing instructions - Cargo:	448
IATA-max. quantity - Cargo:	50 kg
<b>14.5. Environmental hazards</b>	
ENVIRONMENTALLY HAZARDOUS:	no
<b>14.6. Special precautions for user</b>	
No information available.	
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
not applicable	
<b>Other applicable information</b>	
Transport as „limited quantity“ according to chapter 3.4 ADR/RID	

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: propan-2-ol; isopropyl alcohol; isopropanol

Entry 40: 2-Propanol; Isopropylalkohol; Isopropanol

2010/75/EU (VOC): 70%

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS



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## Additional information

To follow: Regulation (EC) No. 648/2004 (Detergents regulation)

## National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 1 - slightly water contaminating

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

verified by: Dipl.-Ing. Christian Wendt

authorized by: Yuko Labuda (Geschäftsleitung)