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CAS Num u Ć	67630	Isopropanol	6575%	2005786	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336
CAS Num u Ć	772841	t •• Ć • š } ( ( % Ć } 1 % ]		52317650	Ox. Liq1, H271 Skin Corr. 1B, H314 Eye Dam. 1, H318

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## 4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

<b>Einnahme:</b>	Es kann Schmerzen und Rötungen des Mundes und der Kehle geben.
<b>Hautkontakt:</b>	Es kann Irritationen und Rötungen geben.
<b>Augenkontakt:</b>	Es kann Irritationen und Rötungen geben.
<b>Einatmen:</b>	Schläfrigkeit oder geistige Verwirrung kann auftreten.

## 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

<b>Allgemeiner Hinweis:</b>	Notarzt alarmieren. Indikationen zur Applikation eines Antidots in jedem Falle mit dem o.g. Giftinformationszentrum absprechen.
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## ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

### 5.1 Löschmittel (kleine und große Brände)

<b>Kleine Feuer:</b>	Wassersprühstrahl, Schaum (alkoholbeständig), Kohlendioxid, Pulver, Sprühnebel (Wasser)
<b>Grosse Feuer:</b>	Wassersprühstrahl, Schaum (alkoholbeständig), Kohlendioxid, Pulver, Sprühnebel (Wasser)

5.2.1 **Besondere Gefahren:**

5.2.2 **Hinweise für die Brandbekämpfung:**

## ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

### 6.1 Personal precautions, protective equipment and emergency measures

6.1.1 **For non-emergency personnel:**

6.1.2 **For emergency responders:**

6.2 **Environmental precautions:**

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

6.3.1 **For containment:**

6.3.2 **For cleaning up:**

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6.3.3 Other information:

None

6.4 Reference to other sections:

Section 8

## SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling:

Handle with care  
Do not store under heavy load conditions or at extremes of temperature  
Keep out of reach of children

7.2 Conditions for safe storage, including any incompatibilities:

None specific

7.3 Specific end uses:

None

## SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Substance				
CAS No.				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Isopropanol		999 mg/m <sup>3</sup>		1250 mg/m <sup>3</sup>

8.2 Exposure controls

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8.2.1	<b>Engineering controls:</b>	Ensure there is sufficient ventilation of the area.
8.2.2	<b>Personal protective equipment:</b>	Protection not required.
8.2.3	<b>Environmental exposure controls:</b>	Take precautionary measures against discharges into the environment

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## SECTION 9: Physical and Chemical Properties

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### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Odour:</b>	Alcohol odour
<b>Colour:</b>	Colourless
<b>pH:</b>	6.5 - 8
<b>Melting point:</b>	Not Applicable
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	12 c
<b>Evaporation rate:</b>	Fast
<b>Flammability:</b>	Flammable
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapour pressure:</b>	Not available
<b>Relative vapour density (air=1):</b>	Not available
<b>Relative density (water=1):</b>	Not available
<b>Solubility:</b>	Miscible with water
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available

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Viscosity: Not available

Explosive properties: Not available

Oxidising properties: Not available

## 9.2 Other information

Critical Temperature: Not Applicable

## SECTION 10: Stability and Reactivity

10.1 Reactivity: Product is stable under normal storage and usage conditions

10.2 Chemical stability: See above

10.3 Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to Avoid: Extreme temperatures

10.5 Incompatible materials:

10.6 Hazardous decomposition products: May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity: Acute Toxicity (Oral LD50)  
> 5000 mg/kg Rat  
Acute Toxicity (Dermal LD50)  
> 5000 mg/kg Rabbit

Skin corrosion/irritation: Not irritating.

Serious eye damage/irritation: Irritating and may cause redness and pain.

Respiratory or skin sensitisation: Not Sensitising.

Germ cell mutagenicity: Not available

Carcinogenicity: This substance has no evidence of carcinogenic properties

Reproductive toxicity: Not available

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<b>STOT-single exposure:</b>	No Known Effects
<b>STOT-repeated exposure:</b>	No Known Effects
<b>Aspiration hazard:</b>	May cause irritation to the respiratory system. Vapours may cause drowsiness and dizziness.
<b>Further information:</b>	

## SECTION 12: Ecological Information

<b>12.1 Toxicity:</b>	Acute Fish Toxicity Not considered toxic to fish. Acute Toxicity - Fish LC50 48 hours > >100 mg/l Leuciscus idus (Golden orfe) Acute Toxicity - Aquatic Invertebrates EC50 48 hours > >100 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours > 100 mg/l Scenedesmus subspicatus
<b>12.2 Persistence and degradability:</b>	The substance is readily biodegradable
<b>12.3 Bioaccumulative potential:</b>	Will not bio-accumulate.
<b>12.4 Mobility in soil:</b>	The product is soluble in water.
<b>12.5 Results of PBT and vPvB assessment:</b>	The mixture does not contain any ingredients which are PBT, vPvB or Substances of Very high concern
<b>12.6 Other adverse effects:</b>	Not Applicable

## SECTION 13: Disposal Considerations

<b>13.1 Waste treatment methods:</b>	Dispose of as normal industrial waste
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## SECTION 14: Transport Information

<b>14.1 UN Number:</b>	Not Applicable
<b>14.2 UN proper shipping name:</b>	Not Applicable
<b>14.3 Transport hazard class:</b>	Not Applicable
<b>14.4 Packing group:</b>	Not Applicable
<b>14.5 Environmental hazards:</b>	Not Applicable

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- 14.6 **Special Precautions for user:** Not Applicable
- 14.7 **Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:** Flammable liquids.

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## SECTION 15: Regulatory Information

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- 15.1 **Safety, health and environmental regulations/legislation specific for the substance/mixture:** The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety regulations  
This product has been assessed to ensure of compliance to the EU REACH and CLP Regulations
- 15.2 **Chemical Safety Assessment:**

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## SECTION 16: Other Information

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- Methods of evaluation:** None specific
- References:** None specific
- Abbreviations:** REACH – Registration, Evaluation, Authorisation and restriction of Chemicals  
CLP – Classification, labelling and Packaging of Substances and Mixtures  
EC No – European Commission Number  
UN Number - United Nations Committee of Experts  
WEL – Workplace Exposure Limit  
STOT – Specific Target Organ Toxicity  
PBT – Persistent, Bioaccumulative and Toxic  
vPvB - very Persistent and very Bioaccumulative

The information contained herein is carefully presented, based on the data we have. However, all precautions described herein are for normal handling, not for special handling. Please establish the safe usage in accordance with your handling procedures by reference to this SDS and applicable laws and guidance. In addition, the description, composition, and physical/chemical properties are typical values and not guaranteed for this product.



# MATERIAL SAFETY DATA SHEET



ISO 9001  
ISO 14001  
ISO 18001

Company Registration 175 7389