



SOLID SURFACE CLEANING SOLUTION

Precautionary statements

Prevention:

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

Response:

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EINECS-No./ELINCS No.	Content [%]
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	200-661-7	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Take off contaminated clothing and shoes immediately.

If inhaled

Move to fresh air.

In case of skin contact

Wash off with plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Drink plenty of water. Do NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Risks

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

For specialist advice physicians should contact the Poisons Information Service.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing

High volume water jet media

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

No information available.

5.3 Advice for fire-fighters

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation. Keep away from sources of ignition
No smoking.

6.2 Environmental precautions

Environmental precautions

Do not flush into surface water or sanitary sewer system.
Do not allow material to contaminate ground water system.



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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection: see section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation.

Vapours are heavier than air and may spread along floors.

Advice on protection against fire and explosion

Keep away from sources of ignition – No smoking. Vapours may form explosive mixtures with air. Do not allow to enter drains (danger of explosion). Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Flammable Liquids

German storage class 3

7.3 Specific end uses

Consult the technical guidelines for the use of this substance/mixture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	CAS Number	Value	Control Parameters	Update	Basis
Isopropanol	67-63-0	TWA	400 ppm / 999 mg/m ³	2007	EH40 WEL
		STEL	500 ppm / 1,250 mg/m ³	2007	EH40 WEL
DNEL propan-2-ol; isopropyl alcohol; isopropanol					
End Use: Workers			Exposure routes:	Skin contact	
			Potential health effects:	Chronic effects	
			Exposure time:	1 d	
			Value:	888 mg/kg	
End Use: Workers			Exposure routes:	Inhalation	
			Potential health effects:	Chronic effects	
			Value:	500 mg/m ³	
End Use: Consumers			Exposure routes:	Skin contact	
			Potential health effects:	Chronic effects	
			Exposure time:	1 d	
			Value:	319 mg/kg	
End Use: Consumers			Exposure routes:	Inhalation	
			Potential health effects:	Chronic effects	
			Value:	89 mg/m ³	
End Use: Consumers			Exposure routes:	Ingestion	
			Potential health effects:	Chronic effects	
			Exposure time:	1 d	
			Value:	26 mg/kg	
PNEC propan-2-ol; isopropyl alcohol; isopropanol					
			Fresh water	Value: 140.9 mg/l	
			Marine water	Value: 140.9 mg/l	
			Fresh water sediment	Value: 552 mg/kg	
			Marine sediment	Value: 552 mg/kg	
			Soil	Value: 28 mg/kg	



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8.2 Exposure controls

Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally required.
In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Eye protection

Tightly fitting safety goggles

Hygiene measures

Take off all contaminated clothing immediately.

Protective measures

Avoid contact with skin and eyes.

Do not breathe vapours or spray mist.

Environmental exposure controls

General advice

Do not flush into surface water or sanitary sewer system.

Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Alcohol like
pH	Not applicable
Melting point/range	-89 °C
Boiling point/boiling range	82 °C, 1,013 hPa
Flash point	12 °C
Lower explosion limit	2 % (V)
Upper explosion limit	12 % (V)
Vapour pressure	42 hPa, 20 °C / 60.2 hPa, 25 °C
Density	0.7855 g/cm ³ , 20 °C
Water solubility	completely miscible
Partition coefficient: n-Octanol/water	log Pow: 0.05, 25 °C, (literature value)
Autoignition temperature	> 399 °C
Ignition temperature	425 °C
Thermal decomposition	No decomposition if used as directed
Viscosity, dynamic	2.5 mPas, 20 °C / 2.1 mPas, 25 °C
Explosive properties	Not explosive, No explosive

9.2 Other information

Oxidising potential	no data available
Refractive index	1.376 – 1.378, 20 °C

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No decomposition if stored normally.



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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Further information No data available

Components: propan-2-ol; isopropyl alcohol; isopropanol:

Acute oral toxicity	LD50: > 2,000 mg/kg, rat, GLP: no, (literature value)
Acute dermal toxicity	LD50: > 2,000 mg/kg rabbit, GLP, no, (literature value)
Skin corrosion/irritation	Rabbit, Result: not irritating, GLP: no, (literature value)
Serious eye damage/eye irritation	Rabbit, Result: irritating, GLP: no, (literature value)
Respiratory or skin Buehler Test,	Guinea pig, Result: not sensitising, GLP: no, (literature value)
Germ cell mutagenicity-	Ames test, Salmonella typhimurium, with and without
Genotoxicity in vitro	Result: not mutagenic, GLP: no, (literature value)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Components: Propanol-2-ol; isopropyl alcohol; isopropanol:

Toxicity to fish	LC50: > 100 mg/l, 48 h, Leuciscus idus melanotus, static GLP: no (literature value)
Toxicity to daphnia and other	EC50: > 100 mg/l, 48 h, Daphnia magna, static test, GLP: no, aquatic invertebrates (literature value)
Toxicity to algae	EC50: > 100 mg/l, 72 h, Scenedesmus subspicatus, static test, GLP: no, (literature value)

12.2 Persistence and degradability

Components: propanol-2-ol; isopropyl alcohol; isopropanol:

Biodegradability aerobic,	> 70 %, Result: Readily biodegradable, Exposure time: 10 d, content 7 mg/l, GLP: no, (literature value)
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12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

Components: propan-2-ol; isopropyl alcohol; isopropanol:

This substance is not considered to be persistent, bioaccumulating nor toxic PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

No data available information

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator.
Contaminated packaging	Can be used after re-conditioning.

14. TRANSPORT INFORMATION

14.1 UN Number

ADR / RID / IMDG / IATA	1219
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14.2 Proper Shipping Name

ADR / RID / IMDG	ISOPROPYL ALCOHOL, ISOPROPANOL
IATA	ISOPROPANOL



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14.3 Transport hazard class
ADR / RID / IMDG / IATA 3

14.4 Packing group

ADR
Packaging Group 11
Classification Code F1
Hazard Identification No 33
Labels 3
Tunnel Restriction Code (D/E)

RID
Packaging Group 11
Classification Code F1
Hazard Identification No 33
Labels 3

IMDG
Packaging Group 11
Labels 3
EmS Number F-E,S-D

IATA
Packaging Instruction (cargo aircraft) 307
Packaging Group 11
Labels 3

14.5 Environmental hazards

Environmentally hazardous
ADR / RID / IMDG / IATA No

14.6 Special precautions for user No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Pollution category

15. REGULATORY INFORMATION

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

Major Accident Hazard Legislation 96/82/EC / Highly flammable
Quantity 1: 5,000 t
Quantity 2: 50,000 t

Notification status

EINECS On the inventory, or in compliance with the inventory
TSCA On TSCA Inventory
AUSTR On the inventory, or in compliance with the inventory
DSL All components of this product are on the Canadian DSL list
ENCS On the inventory, or in compliance with the inventory
KOREA On the inventory, or in compliance with the inventory
PHIL On the inventory, or in compliance with the inventory
CHINA On the inventory, or in compliance with the inventory
ISHL On the inventory, or in compliance with the inventory
NZIOC On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.



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16. OTHER INFORMATION

Full text of R Phrases referred to under sections 2 and 3

R11
R36
R67

Highly flammable.
Irritating to eyes.
Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3

H225
H319
H3326

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

NOTES

Solid Surface Cleaning Solution complies with the following standards:

BS 1595:1976
ASTM D770
Eu. Ph. 2000 Monograph for 'Isopropyl Alcohol'

Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.

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