

#### ISOPROPYL ALCOHOL

Version: 3.00

Revision Date 2003/02/08

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Trade name

ISOPROPYL ALCOHOL

lise

industrial use, Solvents, process control substance, raw material for cleaning

agents and disinfectants, raw material for photochemicals

Company

SASOL Germany GmbH

Chemische Produkte Lösemittel

Anckelmannsplatz 1 20537 Hamburg

Information (Product safety):

+ 49 (0) 23 65 - 49 47 05

Fax: + 49 (0) 23 65 - 49 92 40

**Emergency telephone number** 

+ 49 (0) 28 41 - 49 24 08

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

propan-2-ol; isopropyl alcohol; isopropanol

content: >= 99.90 %

CAS-No.: 67-63-0 Symbol(s): F, Xi

Index-No.: 603-117-00-0

R-phrase(s): -R11 -R36 -R67

EG-Nr.: 200-661-7

For the full text of the R phrases mentioned in this Section, see Section 16.

# 3. HAZARDS IDENTIFICATION

# Identification of the risks

Highly flammable. Irritating to eyes.

Vapours may cause drowsiness and dizziness.

# 4. FIRST AID MEASURES

General advice

Take off contaminated clothing and shoes immediately.

Inhalation

Move to fresh air.

Skin contact

Wash off with plenty of water.

Eye contact

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

physician.

Ingestion

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

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water spray, alcohol-resistant foam, carbon dioxide (CO2), dry powder

Extinguishing media which

must not be used for safety

high volume water jet

reasons

**Further information** Water mist may be used to cool closed containers.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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

**Environmental precautions** 

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

to contaminate ground water system.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, univer-

sal binder, sawdust).



#### ISOPROPYL ALCOHOL

Version: 3.00

Revision Date 2003/02/08

#### 7. HANDLING AND STORAGE

**HANDLING** 

Safe handling advice

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.

**STORAGE** 

Requirements for storage areas

Keep container tightly closed. Keep in a well-ventilated place.

and containers

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Components	CAS-No.	Тур		Control parame- ters	Update	Basis
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	TWA TWA STEL STEL TWA STEL REL STEL STEL PEL TWA TWA STEL STEL STEL STEL STEL STEL STEL STEL	PEL	983 mg/m3 400 ppm 1,230 mg/m3 500 ppm 200 ppm 400 ppm 980 mg/m3 400 ppm 1,225 mg/m3 500 ppm 980 mg/m3 400 ppm 980 mg/m3 400 ppm 1,225 mg/m3 500 ppm 980 mg/m3 400 ppm 1,225 mg/m3 500 ppm 1,225 mg/m3 500 ppm	2001 2001 2001 2001 2000 2000 06 1997 06 1997 06 1997 06 1993 06 1993 1989 1989 1989 1989 11 1997 11 1997 11 1997	ACGIH ACGIH ACGIH ACGIH ACGIH NIC ACGIH NIC NIOSH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 OSHA Z1A OSHA Z1A OSHA Z1A OSHA Z1A US CA OEL US CA OEL US CA OEL
Propan-2-ol	67-63-0	MAK MAK		500 mg/m3 200 ppm	09 2001 09 2001	TRGS 900 TRGS 900

# PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

gloves suitable for permanent contact:

Material: Nitrile rubber/nitrile latex Break through time: >= 480 min Material thickness: 0.35 mm

Material: butyl-rubber

Break through time: >= 480 min Material thickness: 0.5 mm

gloves suitable for splash protection:

Material: Polychloroprene Break through time: >= 240 min Material thickness: 0.5 mm

unsuitable gloves

Material: Natural rubber/natural latex, polyvinylchloride



#### ISOPROPYL ALCOHOL

Version: 3.00 Revision Date 2003/02/08

Eye protection

tightly fitting safety goggles

Hygiene measures

Take off all contaminated clothing immediately.

Protective measures

Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Colour

Odour alcoholic

Boiling point/range

82.0 - 83.0 °C; 1,013 hPa; DIN 53171

Flash point

Нq

13 °C: DIN 51755 Part 1

Ignition temperature

425 °C

colourless

not applicable

Lower explosion limit

2 %(V)

Upper explosion limit

12 %(V)

Vapour pressure

42 hPa; 20 °C

Density

0.784 - 0.786 g/cm3; 20 °C; DIN 51757

Solubility/qualitative

miscible with most organic solvents

Viscosity, dynamic

Water solubility

completely miscible 2.5 mPa.s; 20 °C

#### 10. STABILITY AND REACTIVITY

Thermal decomposition

No decomposition if used as directed.

Hazardous reactions

Vapours may form explosive mixture with air.

# 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity propan-2-ol; isopropyl alcohol; isopropanol:

LD50 rat: > 2,000 mg/kg; (literature value)

Acute dermal toxicity

propan-2-ol; isopropyl alcohol; isopropanol: LD50 rabbit: > 2,000 mg/kg; (literature value)

propan-2-ol; isopropyl alcohol; isopropanol:

Skin irritation rabbit: not irritating; (literature value)

Eye irritation propan-2-ol; isopropyl alcohol; isopropanol: rabbit: irritating; (literature value)

propan-2-ol; isopropyl alcohol; isopropanol:

Genotoxicity in vitro

Sensitization

Buehler Test guinea pig: not sensitizing; (literature value)

propan-2-ol; isopropyl alcohol; isopropanol:

Ames test: not mutagenic; (literature value)

# 12. ECOLOGICAL INFORMATION

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

Readily biodegradable.; > 70 %; 10 d; (literature value)

**ECOTOXICITY EFFECTS** 

Toxicity to fish propan-2-ol; isopropyl alcohol; isopropanol:

LC50 Leuciscus idus melanotus: > 100 mg/l; 48 h; (literature value)

propan-2-ol; isopropyl alcohol; isopropanol: Toxicity to daphnia

EC50 Daphnia magna: > 100 mg/l; 48 h; (literature value)



# ISOPROPYL ALCOHOL

Version: 3.00 Revision Date 2003/02/08

Toxicity to algae propan-2-ol; isopropyl alcohol; isopropanol:

EC50 Scenedesmus subspicatus: > 100 mg/l; 72 h; (literature value)

#### 13. DISPOSAL CONSIDERATIONS

**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.

waste code of the European

Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

#### 14. TRANSPORT INFORMATION

ADR UN-No: 1219; Class: 3; Packaging group: II; F1; Description of the goods:

**ISOPROPANOL** 

RID UN-No: 1219; Class: 3; Packaging group: II; F1; Description of the goods:

**ISOPROPANOL** 

ADNR UN-No: 1219; Class: 3; Packaging group: II; Description of the goods: Isopro-

panol

IMDG UN-No: 1219; Class: 3; EmS: 3-06; Packaging group: II; Description of the

goods: ISOPROPANOL

ICAO/IATA

UN-No : 1219; Class: 3; Packaging group: II; Description of the goods: Isopro-

panol

# 15. REGULATORY INFORMATION

# LABELLING

labelling according to EEC

Directive

According to Annex I of Dir. 67/548 EEC

Symbol(s):

F: Highly flammable

Xi: Irritant

R-phrase(s)

R11: Highly flammable. R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

S-phrase(s)

S 7: Keep container tightly closed.

S16: Keep away from sources of ignition. - No smoking.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Additional advice

EC Label

Hazardous components which must be listed on the label

PROPAN-2-OL; ISOPROPYL ALCOHOL; ISOPROPANOL

# NATIONAL LEGISLATION

Occupational restrictions

Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

voc

The question whether this product or components thereof has/have to be considered as volatile organic compound/compounds (VOC) as defined by Directive 1999/13/EU can only be answered when detailed knowledge on the use as solvent in connection with certain activities in certain facilities is available.

#### 16. OTHER INFORMATION

Text of R phrases mentioned in Section 2



# ISOPROPYL ALCOHOL

Version: 3.00 Revision Date 2003/02/08

R11 Highly fldmmable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Il Indicates updated section.