

# Material safety data sheet

Cleaner 304309

Date of issue: 12-11-2012

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

<b>Product name</b>	Cleaner 304309
Application	Solvent. For industrial or institutional use. Professional use.
Chemical name	Propan-2-ol
Cas-no.	67-63-0
Annex VI no.	603-117-00-00
Supplier	NEXANS IKO SWEDEN AB
Address	514 81 GRIMSÅS Sweden
Telephon	+46 (0)325-800 00
Fax	+46 (0)325-803 27
E-mail	ccc.se@nexans.com
Website	www.nexans.com
<b>Emergency telephone no.</b>	+46 8 331 231 during office hours only
Issued by	V. Strieker, 031-948031, strico@telia.com

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 2)  
Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

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

### Label elements:

#### Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Danger

Hazard statement(s):

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Supplemental hazard statements:** None

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## According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



R-phrases(s)

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

S-phrases(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.

**Other hazards** None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Product description:** Substance. Not classified as PBT or vPvB. Not included in the EU list with SVHC substances.

REACH-no.: Not available

#### Substances

Synonyms: 2-Propanol  
sec-Propyl alcohol  
Isopropyl alcohol  
Isopropanol

Formula:  $C_3H_8O$

Molecular Weight: 60,1 g/mol

Information on hazardous substances:

Component	Concentration	CAS-nr	EC-nr	Symbols	R-phrases
Isopropyl alcohol	> 99 w/w %	67-63-0	200-661-7	F; Xi;	11/36/66/67

Reference is made to chapter 15 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

Component	Concentration	REACH-no.	Hazard Class	Pictograms	H-phrases
Isopropyl alcohol	> 99 w/w %	—	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	GHS02; GHS07; Dgr	H225, H319, H336

Reference is made to chapter 15 for full text of each relevant H-phrase.

## 4. FIRST AID MEASURES

### Effects and symptoms

Inhalation	:	May cause headache, drowsiness, dizziness and a feeling of sickness.
Skin contact	:	May cause dry skin.
Eye contact	:	Irritant. May cause redness and pain.
Ingestion	:	May cause a feeling of sickness, vomiting and diarrhoea.

### First aid measures

Inhalation	:	Move victim into fresh air. Consult a doctor if victim feels unwell.
Skin contact	:	Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.
Eye contact	:	Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.
Ingestion	:	Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor immediately.

### Note to physicians

General	:	Call a poison control centre for guidance.
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## 5. FIREFIGHTING MEASURES

### Extinguishing media

Suitable	:	Carbon dioxide (CO <sub>2</sub> ). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable	:	Water jet.
Special exposure hazards	:	None known.
Hazardous thermal decomposition products	:	Carbon monoxide may be evolved if incomplete combustion occurs.
Special protective equipment for fire-fighters	:	Use adequate respiratory equipment in case of insufficient ventilation.
Further information	:	Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated place (< 35 °C). Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from oxidizing agents. Protect from sunlight.

### Specific end uses

Use only as directed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Workplace exposure limits (mg/m<sup>3</sup>)

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments
Propan-2-ol	GB	999	1250	

### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.  
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body Protection

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance Form	:	liquid
Colour	:	colourless
Odour	:	alcohol-like
Odour Threshold	:	no data available
pH	:	no data available
Melting point/freezing Point	:	Melting point/range: -89,5 °C - lit.
Initial boiling point And boiling range	:	82 °C - lit.
Flash point	:	12,0 °C - closed cup
Evaporation rate	:	3,0 (n-butyl acetate = 1)
Flammability (solid, gas)	:	no data available
Upper/lower flammability or explosive limits	:	Upper explosion limit: 12,7 %(V)      Lower explosion limit: 2 %(V)
Vapour pressure	:	43,2 hPa at 20,0 °C      58,7 hPa at 25,0 °C
Vapour density	:	no data available (air = 1)
Relative density	:	0,785 g/cm <sup>3</sup> at 25 °C
Water solubility	:	completely soluble
Partition coefficient n-octanol/water	:	log Pow: 0,05
Autoignition Temperature	:	425,0 °C
Decomposition Temperature	:	no data available
Viscosity	:	20° C = 3 m <sup>2</sup> /sec (1 m <sup>2</sup> /sec = 1cSt)      40° C = no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available

### Other safety information

Surface tension 20,8 mN/m at 25,0 °C

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## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	:	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	:	No data available
<b>Conditions to avoid</b>	:	Heat, flames and sparks. Extremes of temperature and direct sunlight. See section 7.
<b>Materials to avoid</b>	:	Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids.
<b>Hazardous decomposition products</b>	:	No data available
<b>Reactivity</b>	:	No data available

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 4710 mg/kg

LC50 Inhalation - rat - 4 h - 16000 ppm

LD50 Dermal - rabbit - 12800 mg/kg

**Skin corrosion/irritation** Skin - rabbit - Mild skin irritation

**Serious eye damage/eye irritation** Eyes - rabbit - Eye irritation - 24 h

**Respiratory or skin sensitization** no data available

**Germ cell mutagenicity** no data available

### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

**Reproductive toxicity** no data available

**Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** no data available

**Aspiration hazard** no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** Causes serious eye irritation.

### Signs and Symptoms of Exposure

Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects.

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## 12. ECOLOGICAL INFORMATION

Degradability 85 % within 28 days (OECD 301D). No bioaccumulation is expected as Log Pow is < 1,0.

### Toxicity

LC<sub>50</sub>, fish, 96 h: 4200 mg/l. Species: Rasbora heteromorpha

EC<sub>50</sub>, Daphnia, 48 h: 13299 mg/l. Species: D. Magna

### Degradability

BOD<sub>5</sub>/COD: 0,3-0,6.

### Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater.

## 13. DISPOSAL CONSIDERATIONS

<b>Product residues</b>	Do not dispose empty pack with regular household waste. Do not dispose into the environment, in drains or in water courses. Treat product residues and non-empty pack as hazardous waste.
<b>European waste catalogue</b>	Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official Chemical waste depot.
<b>Local legislation</b>	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
<b>Waste treatment methods</b>	Burn in a chemical incinerator equipped with an afterburner and scrubber.

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## 14. TRANSPORT INFORMATION

<b>Transport name / Proper Shipping name</b>	ISOPROPANOL
<b>UN-no.</b>	1219
<b>ADR/RID (road/railway)</b>	Class 3 hazard identification no. 33 Packaging group II Tunnel restrictions Passage forbidden through tunnels of category D when carried in bulk or tank. Passage forbidden through tunnels of category E. Transport Category 2 Classification code F1 Danger label 3
<b>IMDG (sea)</b>	Class 3 Packaging group II EmS (fire / spill) F-E, S-D Marine pollutant No
<b>IATA (air)</b>	Class 3 Packaging group II



## 15. REGULATORY INFORMATION

### Full text of H-phrases mentioned in section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### Full text of R-phrases mentioned in section 3:

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

### Community regulations:

EC Directive 67/548/EEC (substances), Regulation (EC) 1272/2008 and other regulations.

## 16. OTHER INFORMATION

**This safety data sheet**

- complies with the requirements of Regulation (EC) No. 1907/2006.
- is accurate to the best of our knowledge and experience at the date of issue specified.

It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product.

The product should be used only as prescribed.