

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 03.08.2007

Revision: 03.08.2007

1 Identification of substance

· **Product details**

· **Trade name** NORSLIPP 9860

· **Application of the substance / the preparation** Release agent

· **Manufacturer/Supplier:**

Reichhold, Inc.
Corporate Headquarters
P.O. Box 13582
Research Triangle Park
NC 27709-3582, USA

Tel +1 919 990 7500

Reichhold UK Ltd.
54/56 Willow Road
Mitcham
Surrey CR4 4NA
England

Tel +44 2086 48 46 84
Fax +44 2086 40 64 32

· **Informing department:**

Product Safety Europe/Middle East
email: prodsafety@reichhold.com

· **Emergency information:**

Tel +47 33 44 86 00
Fax +47 33 44 86 01

2 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

Has a narcotizing effect.

R 10 Flammable.

R 36 Irritating to eyes.

R 67 Vapours may cause drowsiness and dizziness.

· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture consisting of the following components with harmless additives.

· **Dangerous components:**

CAS: 67-63-0 isopropyl alcohol

38.5%

EINECS: 200-661-7 Xi, F; R 11-36-67

(contd. on page 2)

— GB —

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 03.08.2007

Revision: 03.08.2007

Trade name NORSLIPP 9860

(contd. of page 1)

CAS: 67-56-1 methanol

< 0.2%

EINECS: 200-659-6 T, F; R 11-23/24/25-39/23/24/25

· **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.· **After swallowing**

Rinse mouth with water.

Seek medical treatment.

5 Fire fighting measures

· **Suitable extinguishing agents**CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear breathing apparatus.

6 Accidental release measures

· **Person-related safety precautions:**

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

Keep away from ignition sources

· **Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· **Handling**· **Information for safe handling:**

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

(contd. on page 3)

— GB —

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 03.08.2007

Revision: 03.08.2007

Trade name NORSLIPP 9860

(contd. of page 2)

- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
 - 67-63-0 isopropyl alcohol**
WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm
 - 67-56-1 methanol**
WEL (Great Britain) Short-term value: 333 mg/m³, 250 ppm
Long-term value: 266 mg/m³, 200 ppm
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
In case of short term exposition use breathing apparatus; in case of intensive or continuous exposition use breathing apparatus with independent air supply.
Filter A
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/substance/preparation.
Check the permeability prior to each renewed use of the glove.
- **Material of gloves**
Nitrile rubber, NBR
Neoprene gloves
PVC gloves
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form:	liquid
Colour:	colourless
Odour:	characteristic

(contd. on page 4)

— GB —

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 03.08.2007

Revision: 03.08.2007

Trade name NORSLIPP 9860

(contd. of page 3)

- **Change in condition**
 - Melting point/Melting range:** not determined
 - Boiling point/Boiling range:** 82 - 100°C
- **Flash point:** 21°C (EN ISO 1523)
- **Ignition temperature:** 425°C (DIN 51794)
- **Self-inflammability:** Product is not self-inflammable.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
- **Critical values for explosion:**
 - Lower:** 2.0 Vol %
 - Upper:** 12.0 Vol %
- **Vapour pressure at 20°C:** 30 hPa
- **Density at 20°C:** 0.95 g/cm³ (DIN 51757)
- **Solubility in / Miscibility with Water:** soluble
- **pH-value:** not applicable
- **Viscosity:**
 - dynamic at 20°C:** 10 - 50 mPas (Brookfield)

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous products of composition:**
 - In case of fire:
 - carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 - 67-63-0 isopropyl alcohol**
 - Oral LD50 4570 mg/kg (rat)
 - Dermal LD50 13400 mg/kg (rab)
 - Inhalative LC50 (4h) 30 mg/l (rat)
- **Primary irritant effect:**
 - on the skin:** Slightly irritating
 - on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.

— GB —
(contd. on page 5)

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 03.08.2007

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Trade name NORSLIPP 9860

(contd. of page 4)

12 Ecological information:

- **Ecotoxicological effects:**
- **Aquatic toxicity:**
67-63-0 isopropyl alcohol
EC50 (48h) 2285 mg/l (*Daphnia magna*)
LC50 (96h) 9640 mg/l (*Pimephales promelas*)
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 04 other organic solvents, washing liquids and mother liquors
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** 3 Flammable liquids.
- **Kemler Number:** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Label** 3
- **Designation of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)), Special provision 640D
- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** 3
- **UN Number:** 1993
- **Label** 3
- **Packaging group:** II
- **EmS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
- **Air transport ICAO-TI and IATA-DGR:**
- **UN/ID Number:** 1993
- **Label** 3
- **Packaging group:** II
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

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(contd. on page 6)

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date: 03.08.2007

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Trade name NORSLIPP 9860

(contd. of page 5)

15 Regulatory information

- **Classification according to EC-regulations:**

The product has been classified and labelled in accordance with EC Directives.

- **Code letter and hazard designation of product:**



Xi Irritant

- **Risk phrases:**

10 Flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

23 Do not breathe fumes/aerosol.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

60 This material and its container must be disposed of as hazardous waste.

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

11 Highly flammable.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

36 Irritating to eyes.

39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

67 Vapours may cause drowsiness and dizziness.

- **Department issuing data specification sheet:** Product Safety Europe/Middle East

- **Contact:**

Product Safety Europe/Middle East

Tel +47 33 44 86 00

Fax +47 33 44 86 01