

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: **INOV SOL**

Article number: 13370001

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC35 Washing and cleaning products (including solvent based products)

Process category PROC19 Manual activities involving hand contact

Application of the substance / the mixture Floor cleaner

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

ZEP UK Ltd

Tanhouse Lane

Widnes Cheshire, WA8 0RR

United Kingdom

Tel: +44 (0)151 422 1000

Fax: +44 (0)151 422 1011

@: info@zep.co.uk

web: www.zep.co.uk

ZEP Industries BV

Vierlinghweg 30

4612 PN Bergen op Zoom

The Netherlands

Tel: (NL) + 31 164 250 100 (B) + 32 2 347 0117

Fax: (NL) + 31 164 266 710 (B) + 32 2 347 1395

@: sales@zepbenelux.com

ZEP ITALIA SRL

Via Nettunese Km. 25.000

04011 Aprilia (LT) - Italy

Tel: +39.06.926691

Fax: +39.06.92747061

@: tecnico@zepeurope.com

Sito: www.zep.it

#### Further information obtainable from:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

#### 1.4 Emergency telephone number:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

Trade name: **INVSOL**

(Contd. of page 1)

· **Hazard pictograms**

GHS07

· **Signal word** Warning· **Hazard-determining components of labelling:**

Isotridecanol, ethoxylated

· **Hazard statements**

H319 Causes serious eye irritation.

· **Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

· **Additional information:**

Contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

· **2.3 Other hazards** The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 69011-36-5 Reg.nr.: 01-2119976362-32-xxxx	Isotridecanol, ethoxylated ⚠ Eye Dam. 1, H318 Aquatic Chronic 3, H412	2.5-5%
CAS: 55965-84-9	mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Sens. 1, H317	<-0.1%

· **Ingredients according to Detergents Regulation 648/2004/EC**

For the wording of the listed hazard phrases refer to section 16.

Nonionic surfactants	<5%
Perfumes, Preservation agents (methylchloroisothiazolinone, methylisothiazolinone)	

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:**

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.· **After swallowing:** If symptoms persist consult doctor.· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

GB

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

Trade name: **INVSOL**

(Contd. of page 2)

· **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, universal binders).
- **6.4 Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****34590-94-8 (2-methoxymethylethoxy)propanol (5-10%)**

WEL (Great Britain)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (European Union)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Skin

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

(Contd. on page 4)

GB

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

Trade name: INOVSOL

(Contd. of page 3)

· **Protection of hands:**

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Not suitable are gloves made of the following materials:** Strong material gloves

· **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Fluid
Colour:	Green
Odour:	Pleasant
Odour threshold:	Not determined.

· **pH-value at 20 °C:** 7

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 207 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapour pressure at 20 °C:** 23 hPa

Density at 20 °C:	1.001 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

· **Solubility in / Miscibility with water:** Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

Dynamic:	Not determined.
Kinematic at 20 °C:	15 s (DIN 53211/4)

· **Solvent content:**

Organic solvents:	5.3 %
-------------------	-------

(Contd. on page 5)

GB

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

Trade name: INOVSOL

(Contd. of page 4)

<b>EU-VOC:</b>	514.6 g/l
<b>EU-VOC</b>	5.25 %
<b>Swiss VOC:</b>	5.25 %
<b>· 9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### 69011-36-5 Isotridecanol, ethoxylated

Oral	LD50	500-2,000 mg/kg (Rat) Literatuur waarde
	EC50	1-10 mg/ltr (Daphnia magna (water flea)) Literatuurwaarde

##### 55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1)

LC50 / 96 h	0.28 mg/ltr (Lepomis gobbosus (Zonnebaars))
	0.19 mg/ltr (Oncorhynchus mykiss (Rainbow trout))
EC 50 / 48 h	0.16 mg/ltr (Daphnia magna (water flea))
EC 50 / 72 H	0.01 (Selenastrum capricornutum (Algae)) mg/l

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

COD	50,132 (mg O <sub>2</sub> / g product) Measured on a 25 % solution in water
	1,062 (mg O <sub>2</sub> / g product) Measured on a 0.5 % solution in water

(Contd. on page 6)

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

**Trade name: INVSOL**

(Contd. of page 5)

**69011-36-5 Isotridecanol, ethoxylated**

OECD test 301 A &gt;70 (biodegradation in % after 28 days)

OECD test 301 B &gt;60 (biodegradation in % after 28 days)

· **12.2 Persistence and degradability** No further relevant information available.· **Other information:** The product is biodegradable.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· **European waste catalogue**

15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
----------	--

15 01 00	packaging (including separately collected municipal packaging waste)
----------	--

15 01 02	plastic packaging
----------	-------------------

· **Uncleaned packaging:**· **Recommendation:** Disposal in accordance with administrative provisions**SECTION 14: Transport information**· **14.1 UN-Number**· **ADR, ADN, IMDG, IATA**

Void

· **14.2 UN proper shipping name**· **ADR, ADN, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**· **ADR, ADN, IMDG, IATA**· **Class**

Void

· **14.4 Packing group**· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

(Contd. on page 7)

GB

# Safety data sheet

## According to 1907/2006/EC, Article 31 REACH

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

Trade name: **INVSOL**

(Contd. of page 6)

· UN "Model Regulation":

Void

### SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;  
 Reg. (EC) n. 1907/2006 – Reach;  
 Reg. (EC) n. 2015/830 annex II of REACH;  
 Reg. (EC) n. 648/04 (Detergents);  
 Reg. (EC) n. 528/12 (Biocides BPR);  
 Reg. (EC) n. 1223/2009 (Cosmetics);  
 Dir. 06/08 ADR – RID - IMDG - IATA;  
 Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);  
 Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

#### · Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.  
 · **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

#### · National regulations:

#### · Technical instructions (air):

Class	Share in %
NK	5-10

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.  
 · **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

#### · Relevant phrases

H301 Toxic if swallowed.  
 H311 Toxic in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H331 Toxic if inhaled.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

#### · Department issuing SDS:

Customer Service  
 NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
 IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61  
 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

#### · Contact:

Customer Service  
 NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
 IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61  
 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals

(Contd. on page 8)

**Safety data sheet**  
**According to 1907/2006/EC, Article 31 REACH**

Printing date 16.03.2018

Version: 5

Revision: 07.03.2018

**Trade name: INOV SOL**

(Contd. of page 7)

*EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***\* Data compared to the previous version altered.**

GB