

Safety data sheet number PID1130  
Version 7  
Revision date 01/Dec/2017  
Supersedes date 10/Nov/2014



## Safety Data Sheet NOVATEC\* F

### 1. Identification of the substance/preparation and of the Company/undertaking

#### 1.1 Product identifier

Product name NOVATEC\* F  
Product code PID1130

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

Recommended Use Fluid loss reducer.

Uses advised against Consumer use

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

##### Supplier

M-I Drilling Fluids UK Limited  
Westhill Business Park  
Westhill AB32 6JL Aberdeenshire  
Scotland United Kingdom

+47 51577424

SDS@slb.com

#### 1.4 Emergency Telephone Number

Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

Norway	Poison information centre: +47 22 59 13 00
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### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### Health hazards

Skin sensitisation	Category 1
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Environmental hazards Not classified

Physical Hazards Not classified

## 2.2 Label elements



### Signal word

WARNING

### Hazard statements

H317 - May cause an allergic skin reaction

### Precautionary Statements - EU (§28, 1272/2008)

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves and eye/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Supplementary precautionary statements

P363 - Wash contaminated clothing before reuse

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### Contains

Tall oil derivative

(2-methoxymethylethoxy)propanol

Rosin (impurity)

## 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria

### Australian statement of hazardous/dangerous nature

Classified as Hazardous according to the criteria of NOHSC.

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

## 3. Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Regulation (EC) No 1272/2008	REACH registration number
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Tall oil derivative	Listed	Proprietary	60-100	Not classified	No data available
(2-methoxymethylethoxy)propanol	252-104-2	34590-94-8	>20 - <40	Not classified	01-2119450011-6 0-xxxx
Rosin (impurity)	232-475-7	8050-09-7	<10	Skin Sens. 1 (H317)	No data available

**Comments**

The product contains other ingredients which do not contribute to the overall classification.

**4. First aid measures**

**4.1 First aid measures**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek medical attention if irritation occurs.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation persists.
<b>Eye Contact</b>	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

**General advice** The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.

**Symptoms**

<b>Inhalation</b>	Please see Section 11. Toxicological Information for further information.
<b>Ingestion</b>	Please see Section 11. Toxicological Information for further information.
<b>Skin contact</b>	Please see Section 11. Toxicological Information for further information.
<b>Eye contact</b>	Please see Section 11. Toxicological Information for further information.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

**5. Fire-fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water spray, Water Fog, Alcohol Foam, CO<sub>2</sub>, Dry Chemical.

**Extinguishing media which must not be used for safety reasons**

None known.

## **5.2. Special hazards arising from the substance or mixture**

### **Unusual fire and explosion hazards**

None known.

### **Hazardous combustion products**

Thermal decomposition can lead to release of irritating gases and vapours

## **5.3 Advice for firefighters**

### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

### **Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. See also section 8.

### **6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil.

### **Environmental exposure controls**

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

### **6.3 Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so. Dyke far ahead of liquid spill for later disposal.

#### **Methods for cleaning up**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After cleaning, flush away traces with water.

### **6.4 Reference to other sections**

See section 13 for more information.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

#### **Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid spills and splashing during use. Persons susceptible to allergic reactions should not handle this product.

#### **Hygiene Measures**

Use good work and personal hygiene practices to avoid exposure When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product Remove contaminated clothing

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures/precautions** Ensure adequate ventilation. Keep airborne concentrations below exposure limits.

**Storage precautions** Keep containers tightly closed in a dry, cool and well-ventilated place Avoid contact with:  
Strong oxidising agents Strong reducing agents

**Packaging materials** Use specially constructed containers only Stainless steel, Mild steel.

**7.3 Specific end uses**

See Section 1.2.

**8. Exposure controls/personal protection**

**8.1 Control parameters**

**Exposure Limits** No biological limit allocated  
**Component Information**

Chemical Name	EU OEL - Third List	Austria	Australia	Denmark
Tall oil derivative (2-methoxymethylethoxy)propanol	Not determined 50 ppm TWA 308 mg/m <sup>3</sup> TWA Possibility of significant uptake through the skin	Not determined 100 ppm STEL 614 mg/m <sup>3</sup> STEL 50 ppm TWA 307 mg/m <sup>3</sup> TWA	Not determined 50ppmTWA 308mg/m <sup>3</sup> TWA	Not determined 50 ppm TWA 309 mg/m <sup>3</sup> TWA Potential for cutaneous absorption
Rosin (impurity)	Not determined	Not determined	0.1mg/m <sup>3</sup> TWA	Not determined
Chemical Name	Malaysia	France	Germany	Hungary
Tall oil derivative (2-methoxymethylethoxy)propanol	Not determined 100 ppm TWA 606 mg/m <sup>3</sup> TWA Skin notation	Not determined 50 ppmTWA 308 mg/m <sup>3</sup> TWA	Not determined 50 ppm TWA 310 mg/m <sup>3</sup> TWA	Not determined 308mg/m <sup>3</sup> TWA 308mg/m <sup>3</sup> STEL
Rosin (impurity)	Not determined	0.1 mg/m <sup>3</sup> TWA	Not determined	Not determined
Chemical Name	New Zealand	Italy	Netherlands	Norway
Tall oil derivative (2-methoxymethylethoxy)propanol	Not determined 150 ppm STEL 909 mg/m <sup>3</sup> STEL 100 ppm TWA 606 mg/m <sup>3</sup> TWA Possibility of significant uptake through the skin	Not determined Not determined	Not determined 300 mg/m <sup>3</sup>	Not determined 50 ppm TWA 300 mg/m <sup>3</sup> TWA 75 ppm STEL 375 mg/m <sup>3</sup> STEL Skin
Rosin (impurity)	Not determined	Not determined	Not determined	Not determined
Chemical Name	Poland	Portugal	Romania	Russia
Tall oil derivative (2-methoxymethylethoxy)propanol	Not determined 480 mg/m <sup>3</sup> STEL NDSCh mixture of isomers: Propanol, 1(or 2)-(2-methoxymethylethoxy)-, Propanol, 1-(1-methoxymethylethoxy)	Not determined Skin 150 ppm STEL VLE-CD 50 ppm TWA indicative limit value 308 mg/m <sup>3</sup> TWA indicative limit value	Not determined 50ppmTWA 308mg/m <sup>3</sup> TWA	Not determined Not determined
Rosin (impurity)	Not determined	Not determined	Not determined	4 mg/m <sup>3</sup> MAC

Chemical Name	Allergenic substance			
	Spain	Switzerland	Turkey	UK
Tall oil derivative	Not determined	Not determined	Not determined	Not determined
(2-methoxymethylethoxy)propanol	Skin 50 ppm TWA VLA-ED 308 mg/m <sup>3</sup> TWA VLA-ED	50 ppm STEL 300 mg/m <sup>3</sup> STEL 50 ppm TWA MAK 300 mg/m <sup>3</sup> TWA MAK	Skin 50 ppm TWA 308 mg/m <sup>3</sup> TWA	150 ppm STEL calculated 924 mg/m <sup>3</sup> STEL calculated Skin 50 ppm TWA 308 mg/m <sup>3</sup> TWA
Rosin (impurity)	Not determined	Not determined	Not determined	Not determined

### Derived No Effect Level (DNEL)

#### Long term exposure systemic effects

##### (2-methoxymethylethoxy)propanol

Dermal	283 mg/kg
Inhalation	308 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC)

##### (2-methoxymethylethoxy)propanol

Fresh Water	19 mg/l
Sea Water	1.9 mg/l
Freshwater sediment	70.2 mg/kg
Soil	2.74 mg/kg
Impact on sewage treatment	4168 mg/l
Intermittent release	190 mg/l

### 8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering Controls

Ensure adequate ventilation. Mechanical ventilation or local exhaust ventilation is required.

#### Personal protective equipment

<b>Eye protection</b>	Use eye protection according to EN 166, designed to protect against liquid splashes. Tightly fitting safety goggles. Safety glasses with side-shields.
<b>Hand protection</b>	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Impervious gloves made of: Neoprene Nitrile PVC Break through time >480 minutes Glove thickness >=0.4 mm Be aware that liquid may penetrate the gloves. Frequent change is advisable.
<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment, Respirator with a vapor filter (EN 141), Use respirator with organic vapor protection (A, brown), At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
<b>Skin and body protection</b>	Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.

#### Hygiene Measures

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.



**8.2.3 Environmental exposure controls**

**Environmental exposure** Local authorities should be advised if significant spillages cannot be contained See section 6 for more information

**9. Physical and chemical properties**

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

**Physical state** Liquid  
**Appearance** No information available  
**Odour** Characteristic  
**Colour** Dark brown  
**Odour threshold** Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No information available	
pH @ dilution		
Melting / freezing point	-5 °C / 23 °F	
Boiling point/range	180 °C / 365 °F	760 mmHg
Flash point	> 75 °C / > 167 °F	PMCC
Evaporation rate	No information available	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapour pressure	No information available	
Vapour density	No information available	
Specific gravity	No information available	
Bulk density	No information available	
Relative density	1.01 sg	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	29 cP	@ 25 °C
Dynamic viscosity	No information available	
log Pow	No information available	
<b>Explosive properties</b>	Not applicable	
<b>Oxidising properties</b>	None known	

**9.2 Other information**

**Pour point** No information available  
**Molecular weight** No information available  
**VOC content(%)** None  
**Density** No information available

**Comments**

The data listed above are typical physical and chemical properties and should not be construed as product specification.

**10. Stability and reactivity**

**10.1 Reactivity**

No specific reactivity hazards associated with this product.

**10.2 Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3 Possibility of Hazardous Reactions**

**Hazardous polymerisation**

Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

Strong oxidising agents. Strong reducing agents.

**10.6 Hazardous decomposition products**

See Section 5.2.

**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

<b>Inhalation</b>	Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin contact</b>	May cause an allergic skin reaction. May be absorbed through the skin in harmful amounts.
<b>Ingestion</b>	Ingestion may cause stomach discomfort.
<b>Unknown acute toxicity</b>	Not applicable.

**LD50 Oral** > 2000 mg/kg (rat) (based on components) (PRODUCT)

**Toxicology data for the components**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tall oil derivative	No data available	No data available	No data available
(2-methoxymethylethoxy)propanol	No data available	No data available	No data available



Rosin (impurity)	No data available	No data available	No data available
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<b>Sensitisation</b>	May cause sensitisation by skin contact.
<b>Mutagenic effects</b>	This product does not contain any known or suspected mutagens.
<b>Carcinogenicity</b>	This product does not contain any known or suspected carcinogens.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>Routes of exposure</b>	Skin contact. Inhalation.
<b>Routes of entry</b>	Skin absorption.
<b>Specific target organ toxicity - Single exposure</b>	Not classified
<b>Specific target organ toxicity - Repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not applicable.

## 12. Ecological information

### 12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Toxicity to algae

This product is not considered toxic to algae.

#### Toxicity to fish

This product is not considered toxic to fish.

#### Toxicity to daphnia and other aquatic invertebrates

This product is not considered toxic to invertebrates.

#### Toxicology data for the components

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Tall oil derivative	No information available	No information available	No information available
(2-methoxymethylethoxy)propanol	No information available	No information available	No information available
Rosin (impurity)	No information available	No information available	No information available

### 12.2 Persistence and degradability

See component information below.

Chemical Name	Persistence and degradability
(2-methoxymethylethoxy)propanol	Readily biodegradable - Test : OECD 301F Duration 28 days 76% (Literature data)

Rosin (impurity)	Readily biodegradable - Test : OECD 301D Duration 28 days 71% (Literature data)
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**12.3 Bioaccumulative potential**

See component information below.

Chemical Name	Bioaccumulation
(2-methoxymethylethoxy)propanol	Does not bioaccumulate - Test : Evaluation Notes: Literature data (estimated)
Rosin (impurity)	Does not bioaccumulate - Test BCF - Bioconcentration factor (BCF) : 56.23 Notes: Calculated data (in silico)

**12.4 Mobility**

**Mobility**

Insoluble in water.

**Mobility in soil**

See component information below.

Chemical Name	Mobility in soil
Tall oil derivative	No information available
(2-methoxymethylethoxy)propanol	Mobile - Notes: Calculated data (in silico)
Rosin (impurity)	Static - Test : Koc:5357 Notes: Calculated data (in silico)

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT/vPvB by current EU criteria.

**12.6 Other adverse effects.**

None known.

**13. Disposal considerations**

**13.1 Waste treatment methods**

**Waste from residues / unused products**

Dispose of in accordance with local regulations.

**Contaminated packaging**

Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

**EWC Waste Disposal No**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application

for which the product was used The following Waste Codes are only suggestions: EWC  
waste disposal No: 07 01 04 Waste Code: 7152 Organic waste without halogen.

## 14. Transport information

### 14.1. UN number

Not regulated

### 14.2. UN proper shipping name

The product is not covered by international regulation on the transport of dangerous goods

### 14.3. Hazard class(es)

<b>ADR/RID/ADN/ADG Hazard class</b>	Not regulated
<b>IMDG Hazard class</b>	Not regulated
<b>ICAO Hazard class/division</b>	Not regulated

### 14.4 Packing group

<b>ADR/RID/ADN/ADG Packing Group</b>	Not regulated
<b>IMDG Packing group</b>	Not regulated
<b>ICAO Packing group</b>	Not regulated

### 14.5 Environmental hazard

No

### 14.6 Special precautions

Not applicable

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

Please contact SDS@slb.com for info regarding transport in Bulk.

## 15. Regulatory information

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

#### **Australian Standard for the Uniform Scheduling of Drugs and Poisons**

Rosin (impurity)  
Schedule 5

**New Zealand hazard classification** Skin Sens. 1

**HSNO approval no.** HSR002503

**Group number** 6.5B

**Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals**

Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].  
 National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition].  
 National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/2013] (CLASS Regulations)

The Industry Code of Practice on Chemical Classification and Hazard Communication 2014 [P.U. (B) 128/2014] (ICOP)

**International inventories**

USA, Toxic Substances Control Act inventory (TSCA)	Complies
European Union - EINECS and ELINCS	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Does not comply
Inventory - Japan - Existing and New Chemicals list	Does not comply
China (IECSC)	Does not comply
Australia (AICS)	Complies
Korea (KECL)	Complies
Inventory - New Zealand - Inventory of Chemicals (NZIoC)	Complies

**Europe - REACH**

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Norway Pr. no. 45608

**15.2 Chemical Safety Report**

No information available

**16. Other information**

**Prepared by** Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Anne Karin (Anka) Fosse  
**Supersedes date** 10/Nov/2014

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Revision date 01/Dec/2017

Version 7

**This SDS has been revised in the following section(s)** This SDS have been made in a new database and therefore a new layout. No changes with regard to classification have been made. Updated according to GHS/CLP.

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

H317 - May cause an allergic skin reaction

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