

Date: 24.11.2009

Former date: 15.4.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING			
1.1 Identification of the substance or preparation			
Trade name	FOR 2 (+ FOR5) Tall Oil Fatty Acid		
Code of preparation	Not applicable yet		
Reach registration number	Not applicable yet		
1.2 Use of the substance/preparation			
1.2.1 The intended uses of the chemical			
1.2.2 Classification of economic activities (NACE)			
1.2.3 Use categories (UC62)			
1.2.4 The chemical can be used by the general public	<input type="checkbox"/>		
1.2.5 The chemical is used by the general public only	<input type="checkbox"/>		
1.3 Company/undertaking identification			
1.3.1 Manufacturer, importer, other undertaking	Forchem Oy		
1.3.2 Contact information:			
Street address	Maanpäätie 3		
Postcode and post office	26820 Rauma, Finland		
Post-office box	P.O.Box 16		
Postcode and post office	FIN-26101 Rauma, Finland		
Telephone number	+358-2-4784 400		
Telefax	+358-2-4784 499		
E-mail address	mikko.rintola@forchem.com		
Y code	1614382-3		
1.3.3 Information on foreign manufacturer			
1.4 Emergency telephone			
1.4.1 Telephone number, name and address	+358 50 310 4413 , Mikko Rintola, Quality Manager, Forchem Oy Finland		
2. HAZARDS IDENTIFICATION			
Product is yellowish oily liquid with a vegetable oil odour. Product is not considered to be combustible. Except after prolonged contact with highly porous materials.			
- Over exposure:	Might irritate eyes		
- Exposure to skin:	Might irritate slightly		
- Contact with eyes	Possible irritation		
3. COMPOSITION AND INFORMATION ON INGREDIENTS			
3.1 Hazardous ingredients			
3.1.1 CAS/EC number and the Registration number	3.1.2 Name of the ingredient	3.1.3 Concentration	3.1.4 Classification (symbol letters and R phrases) and other data on the ingredient
61790-12-3	Tall oil fatty acid	100 %	None
3.1.5 There has been a request for confidentiality of a substance	<input type="checkbox"/>		

Trade name: FOR2

Date: 24.11.2009

Former date: 15.4.2008

- 3.1.6 according to Annex 2 of the decree
3.1.7 A substance not dangerous has been indicated as confidential
Other information
EINECS: 263-107-3

4. FIRST AID MEASURES

- 4.1 **Special instructions**
- 4.2 **Inhalation**
Move person to non-contaminated air, if person is not breathing, apply artificial respiration, seek medical attention.
- 4.3 **Skin contact**
Wash with soap and water. If hot product contacts skin, cool under running water and get medical attention.
- 4.4 **Eye contact**
Rinse immediately with plenty of water and get medical attention. If hot product contacts eye, flush with water and get medical attention immediately.
- 4.5 **Ingestion**
Rinse mouth with water
- 4.6 **Information for a doctor or other professionals giving first aid**

5. FIRE-FIGHTING MEASURES

- 5.1 **Suitable extinguishing media**
Powder, carbon dioxide, foam, watermist (only large amounts).
- 5.2 **Extinguishing media which shall not be used for safety reasons**
Not applicable
- 5.3 **Special exposure hazards in a fire**
In case of fire toxic fuems might be formed.
- 5.4 **Special protective equipment for fire-fighters**
Wear protective clothing and use self-contained breathing apparatus
- 5.5 **Other instructions**

6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions**
Put on adequate protective equipment.
- 6.2 **Environmental precautions**
Keep away from drains, surface-water, ground-water, and soil.
- 6.3 **Methods for cleaning up**
Collect as much as possible in a clean container for disposal. Cover the remainder with inert absorbent. Disposal according to local regulations.
- 6.4 **Other instructions**

7. HANDLING AND STORAGE

- 7.1 **Handling**
Avoid contact with eyes.
- 7.2 **Storage**
Direct sunshine should be avoided. Warm product can self-ignite when soaked into porous material.
- 7.3 **Specific use(s)**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Exposure limit values**
- 8.1.1 **HTP values**
Not applicable
- 8.1.2 **Other limit values**
Not applicable
- 8.1.3 **Limit values in other countries**
Not applicable
- 8.1.4 **DNELs**
- 8.1.5 **PNECs**

Trade name: FOR2

Date: 24.11.2009

Former date: 15.4.2008

8.2	Exposure controls
8.2.1	Occupational exposure controls
8.2.1.1	Respiratory protection No respiratory equipment required.
8.2.1.2	Hand protection Protective gloves. Material of gloves (PVC or PE gloves) The choice of the suitable glove is not only dependent on the material but also on other quality issues and differs from manufacturer to manufacturer 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.
8.2.1.3	Eye protection Safety glasses.
8.2.1.4	Skin protection Suitable protective work clothing which has coveralls and long sleeves.
8.2.2	Environmental exposure controls N/A
9.	PHYSICAL AND CHEMICAL PROPERTIES
9.1	General information (physical state, colour and odour) Liquid, yellow, faint odour.
9.2	Important health, safety and environmental information
9.2.1	pH Not applicable
9.2.2	Boiling point/boiling range >200 °C, Decomp.
9.2.3	Flash point 200 °C
9.2.4	Flammability (solid, gas)
9.2.5	Explosive properties
9.2.6	Oxidising properties Not applicable
9.2.7	Vapour pressure 3 mbar
9.2.8	Relative density 0,905 (20 °C) Density 0,905 kg/dm ³
9.2.9	Solubility
9.2.10	Water solubility Not soluble
9.2.11	Partition coefficient: n-octanol/water Log ₁₀ P _{ow} 4.9 - 6.0
9.2.12	Viscosity 35 mPa s (20° C)
9.2.13	Vapour density
9.3	Other information
10.	STABILITY AND REACTIVITY
10.1	Conditions to avoid Excessive heating with porous material. Warm product can self-ignite when soaked into porous material.
10.2	Materials to avoid Porous material
10.3	Hazardous decomposition products N/A
11.	TOXICOLOGICAL INFORMATION
11.1	Acute toxicity

Trade name: FOR2

Date: 24.11.2009

Former date: 15.4.2008

- None
- 11.2 **Irritation and corrosiveness**
Eye contact: Irritating
- 11.3 **Sensitisation**
- 11.4 **Sub-acute, sub-chronic and prolonged toxicity**
- 11.5 **Human health effects based on experience**
- 11.6 **Other information on health effects**

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

- 12.1.1 **Aquatic toxicity**
- 12.1.2 **Toxicity to other organisms**
- 12.2 **Mobility**
Not applicable

12.3 Persistence and degradability

- 12.3.1 **Biodegradation**
> 80 % 28 days (OECD 301F)
- 12.3.2 **Chemical degradation**
Not applicable
- 12.4 **Bioaccumulative potential**
- 12.5 **Results of PBT assessment**
- 12.6 **Other adverse effects**
Not applicable

13. DISPOSAL CONSIDERATIONS

Method of disposal: Controlled incineration.
Danger(s): Warm product can self-ignite when soaked into porous material.

14. TRANSPORT INFORMATION

- 14.1 **UN number**
Not classified
- 14.2 **Packing group**
- 14.3 **Land transport**
- 14.3.1 **Transport class**
Not classified
- 14.3.2 **Risk code**
Not Classified
- 14.3.3 **Name according to bill of freight**
Tall oil fatty acid For 2
- 14.3.4 **Other information**

14.4 Sea transport

- 14.4.1 **IMDG class**
Not classified
- 14.4.2 **Correct technical name**
Tall Oil Fatty Acids(resins less than 20%)
- 14.4.3 **Other information**
IMO: MARPOL Annex II; IBC code, chapter 17

14.5 Air transport

- 14.5.1 **ICAO/IATA class**
Not classified
- 14.5.2 **Correct technical name**
- 14.5.3 **Other information**

15. REGULATORY INFORMATION

15.1 Information on the warning label

- 15.1.1 **Danger symbols (letters) and indications of danger**

Trade name: FOR2

Date: 24.11.2009

Former date: 15.4.2008

Not classified

15.1.2 Substances to be named on the label

N/A

15.1.3 R phrases

None

15.1.4 S phrases

None

15.1.5 Special provisions concerning the labelling of certain preparations

N/A

15.1.6 Chemical Safety Assessment has been carried out for the following substances

15.2 National regulations

N/A

16. OTHER INFORMATION

16.1 List of the relevant R phrases

None

16.2 Training advice

16.3 recommended restrictions on use

None

16.4 Further information

Forchem Oy, Finland

P.O.Box 16

FIN-26101 Rauma

Mikko Rintola

Quality Manager

tel.+358 2 478 4400

16.5 Sources of key data used the Safety Data Sheet

16.6 Information which has been added, deleted or revised

14.4.3 Addition