

Section 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Name of the substance	Tall Oil Fatty Acids
Trade name of the substance	SYLFAT™ 2
Identification Number	61790-12-3
Registration number	-
Product registration number	Not available.
Synonyms	None.
SDS number	6614/2791E
Product code	2000244, 2000742, 2000904, 2000905, 2000948, 2000949
Date of first issue	27-October-2011
Version number	01
Revision date	-
Supersedes date	-

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

Identified uses	Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys). Intermediate.
Uses advised against	None known.

Details of the supplier of the safety data sheet**Supplier**

Company name	Arizona Chemical B.V.
Address	Transistorstraat 16 1322 CE Almere NL
Telephone	+31 36 546 2800
e-mail	regulatory.EU@azchem.com
Contact person	Not available.
Emergency telephone number	EU NCEC +44 1865 407 333

Section 2: Hazards identification**Classification of the substance or mixture**

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Not available.
Main symptoms	Not available.

Label elements**Label according to Regulation (EC) No. 1272/2008 as amended**

Contains:	Tall Oil Fatty Acids
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Identification Number	61790-12-3
Hazard statements	The substance does not meet the criteria for classification.
Precautionary statements	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Supplemental label information	Not applicable.
Other hazards	After prolonged contact with highly porous materials, this product may spontaneously combust.

Section 3: Composition/information on ingredients

Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Tall Oil Fatty Acids	100	61790-12-3 263-107-3	-	-	
Classification:					
DSD:	-				
CLP:	-				

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

Section 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Get medical attention if irritation develops and persists. Rinse skin with water/shower.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

Most important symptoms and effects, both acute and delayed Not available.

Indication of any immediate medical attention and special treatment needed Not available.

Section 5: Firefighting measures

General fire hazards This product is not flammable. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

Extinguishing media

Suitable extinguishing media	Water fog. Water spray, dry chemical, carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Advice for firefighters

Special protective equipment for firefighters	Wear suitable protective equipment.
Special firefighting procedures	Wear suitable protective equipment.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Not available.
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For emergency responders	Not available.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up	This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
Reference to other sections	For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling	Contaminated rags and cloths must be put in fireproof containers for disposal. Observe good industrial hygiene practices. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material.
Conditions for safe storage, including any incompatibilities	Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure.
Specific end use(s)	Not available.

Section 8: Exposure controls/personal protection

Control parameters	
Occupational exposure limits	No exposure limits noted for the ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.
Exposure controls	
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Individual protection measures, such as personal protective equipment	
General information	Not available.
Eye/face protection	Safety glasses.
Skin protection	
- Hand protection	Not normally needed.
- Other	Not available.
Respiratory protection	No personal respiratory protective equipment normally required.
Thermal hazards	Not available.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.
Environmental exposure controls	Not available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties	
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Yellow
Odour	Mild.
Odour threshold	Not available.
pH	Not applicable.

Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	> 200 °C (> 392 °F)
Flash point	200 °C (392 °F) Cleveland open cup
Auto-ignition temperature	257 °C (494.6 °F) Data is for similar product.
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidising properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapour pressure	2.25 mm Hg at 150°C
Vapour density	Not applicable.
Evaporation rate	0 approx.; (n-BuAc=1)
Relative density	0.9 at 25°C/25°C;(water=1)
Density	905 kg/m ³ at 20°C
Solubility (water)	12.6 mg/l at 20°C.
Partition coefficient (n-octanol/water)	4.9 - 6 at 30°C
Decomposition temperature	Not available.
Pour point	-8 °C (17.6 °F)
Viscosity	30 cP at 20°C
Percent volatile	0 % estimated
Other data	
Chemical family	Tall Oil Fatty Acids
Flammability	Non flammable.
Flammability class	Not classified.
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	None known.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Strong oxidizing agents. Avoid temperatures exceeding the flash point. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.
Incompatible materials	This product may react with strong oxidizing agents.
Hazardous decomposition products	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

Section 11: Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Symptoms	Not available.
Information on toxicological effects	

Acute toxicity Not classified.

Components

Tall Oil Fatty Acids (61790-12-3)

Test results

Acute Dermal LD50 Albino rabbit: > 2000 mg/kg 14 days
Acute Oral LD50 Albino Sprague-Dawley rat: > 10000 mg/kg 14 days

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation

Not classified.

Product

SYLFAT™ 2

Test results

Draize Test
Result: negative
Species: Albino rabbit
Organ: Eye
Test Duration: 7 days
Observation Period: 7 days
Comments: No eye irritation.

Respiratory sensitisation Not available.

Skin sensitisation

Not classified.

Product

SYLFAT™ 2

Test results

Buehler Test
Result: negative
Species: Guinea pig
Organ: Skin
Comments: Not a skin sensitizer
Notes: OECD 406
SYLFAT™ 2
Maximisation Assay (Magnusson and Kligman)
Result: negative
Species: Guinea pig
Organ: Skin
Comments: Not a skin sensitizer
Notes: OECD 406

Germ cell mutagenicity

Not classified.

Product

SYLFAT™ 2

Test results

Germ Cell Mutagenicity: Ames
Result: negative
Species: Salmonella typhimurium
Comments: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Notes: OECD 471
SYLFAT™ 2
Germ Cell Mutagenicity: Chromosome Abberation
Result: positive
Species: Hamster
Organ: lymphatic system
Comments: Clastogenic
Notes: OECD 473

Carcinogenicity Not classified.

Reproductive toxicity Not available.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Mixture versus substance information Not available.

Other information This product has no known adverse effect on human health.

Section 12: Ecological information

Toxicity

Components

Tall Oil Fatty Acids (61790-12-3)

Test results

EC50 Bacteria (*Pseudomonas putida*): > 10000 mg/l 16 hr
EL50 Green algae (*Selenastrum capricornutum*): > 1000 mg/l
72 hr Growth rate; OECD 201
EL50 Water flea (*Daphnia magna*): > 1000 mg/l 48 hr OECD
202
LL50 Zebra danio (*Danio rerio*): > 10000 mg/l 96 hr

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

The product is expected to be biodegradable.

Product

Test results

SYLFAT™ 2

56 % - Closed Bottle Test (% Degradation in 28 days)

Test Duration: 28 d

SYLFAT™ 2

74 % Modified Sturm Test

Test Duration: 28 d

SYLFAT™ 2

88 - 100 % CO₂ Evolution Test

Test Duration: 28 d

Bioaccumulative potential

The product is not bioaccumulating.

Mobility

This product is miscible in water.

Environmental fate - Partition coefficient

Product

Test results

SYLFAT™ 2

4.9 - 6

Mobility in soil

Not available.

Results of PBT and vPvB assessment

Not available.

Other adverse effects

Not available.

Section 13: Disposal considerations

Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

Not available.

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Section 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

Section 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer

Not regulated.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals

Not regulated.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals

Not regulated.

Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Regulation (EC) No. 1907/2006 Annex XIV Substance subject to autorisation

Not regulated.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Not available.

Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Water hazard class

VwVws

WGK1

Section 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

None.

Revision information

Not available.

Training information

Not available.

Disclaimer

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